



ANNOTATED DIRECTORY OF
ORGANIZATIONS DEALING WITH
DESERTIFICATION CONTROL AND
DRYLAND DEVELOPMENT



UNITED NATIONS ENVIRONMENT PROGRAMME

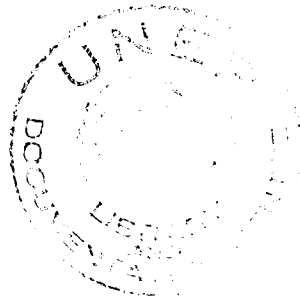


DESERTIFICATION CONTROL
PROGRAMME ACTIVITY CENTRE
1986

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AND DRYLAND DEVELOPMENT

1986

PREPARED BY
DESERTIFICATION CONTROL
PROGRAMME ACTIVITY CENTRE
NAIROBI



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INTRODUCTION

Desertification as a serious threat to the future of mankind became a prominent issue following the devastating famines of the late 1960s and early 1970s in the Sahel zone of West Africa and Ethiopia. These famines were repeated in the mid-1980s. The decreases in food production which result in famine are due to a complex of factors which causes lower land productivity. The most important factor in long term decreases in land productivity is the phenomenon of desertification, where vegetation cover is lost and soil is eroded or degraded by nutrient depletion, salinization or waterlogging.

Recognizing the growing threat of desertification, the United Nations convened the Conference on Desertification (UNCOD) in 1977, held in Nairobi. The UN Plan of Action to Combat Desertification (PACD) resulted from this conference, and a desertification unit was established within the United Nations Environment Programme (UNEP) to follow-up and co-ordinate implementation of the Plan. Today this unit is known as the Desertification Control Programme Activity Centre (DC/PAC).

This Annotated Directory is a direct response of a recommendation made by the PACD (para.99 (e) (v)) that arrangements be made for:

"the preparation, publication and distribution by UNEP, in co-operation with relevant United Nations bodies and other international and non-governmental organizations, of an updated annotated directory of international, regional and national organizations, institutes, research centres, experimental stations, etc. which are dealing with the problems of desertification and the development of arid lands."

It is our hope that this directory will facilitate the dissemination and exchange of information and experience relating to desertification and its control. Additions and corrections to this directory can be made by making use of a questionnaire located in the rear of this document as an appendix. It can be mailed to:

Desertification Control PAC
P.O. Box 30552
Nairobi, Kenya

We also invite interested persons and institutions to contact us for further information concerning desertification should they so wish.

ACKNOWLEDGEMENTS

The data obtained for the preparation of this Directory has been supplied by more than 450 institutions in response to 850 questionnaires which were sent out at the beginning of 1985. We offer our special thanks to them all for their contribution to this endeavour.

We would also like to thank in advance the many people who will help us to improve future publications of this directory by providing more detailed and precise information by means of the attached questionnaire in Appendix I. We also encourage users to forward the questionnaire to organizations which are not yet registered in the Directory.

TYPE OF INFORMATION

The information herein has been obtained mainly from a mail-survey conducted during the period of January -December 1985. More than 850 institutions and organizations (governmental, non-governmental, international and private) from all over the world were contacted. The response rate reached 65 per cent by the end of December 1985, with late responses arriving after that time. These late responses will be included in the next edition along with the modifications of those already recorded.

The following elements comprise the standardized format (previously defined by UNESCO and the Inter-Agency Working Group on Desertification, March 1983) by which all entries are organized and then catalogued.

1. Country
2. Formal name of the organization
3. Address
4. Cable/telex
5. Name of Director
6. Title of his/her post
7. Number of professional staff
8. Main internal organization
9. Specific areas of concern
10. Specific activities being carried out
11. New activities planned
12. Publications (type, periodicity)
13. Sources of economic support
14. Fixed or permanent experimental stations and their activities

SOURCES OF INFORMATION

The source of information for each organization described in Chapter IV is referred by the codes listed below.

<u>Code</u>	<u>Source of Information</u>
R	Response to UNEP-questionnaire
(1)	UNEP. Desertification Control in Africa: Actions and Directory of Institutions. Vol II. 1985.
(2)	UNEP. Draft Directory of National, Regional and International Institutions Involved in Research and/or Training on Subjects Related to Desertification in the ECWA Region. 1984 (Draft).
(6)	UNEP. Compendium of Projects and Programmes of the United Nations System in the Field of Desertification. UNEP/GC.12/Background Paper 2. 1984 (Draft).

ARRANGEMENT OF THE INFORMATION

The information in this document has been sorted and will be presented under the following chapters:

- Chapter I: Alphabetic index of organizations
- Chapter II: Subject term index
- Chapter III: Geographical location index
- Chapter IV: Description of organizations
- Chapter IV: Contains the block of recorded organizations with a detailed description and is presented in region-country code order.
- Chapters I-III: Offer three ways to access the information contained in Chapter IV.

It is important to point out that the subject terms included in this publication are intended to be a simple way to classify, describe and access the information. Suggestions from users on how to improve the information access is most welcome.

Appendix I consists of a questionnaire for institutions included that may be interested in modifying the given information, or for new organizations that were not included in the present edition to send in information. The next edition is expected to be ready by the end of 1988.

HOW TO USE THE DIRECTORY

If you are looking for information about institutions by:

- A. The specific name of the organization:
- Find the name of the organization in Chapter I: "Alphabetical Index of Organizations", pick up its code and locate it in Chapter IV: "Description of organizations", which is arranged in alpha-numeric order.
- B. A specific subject area of concern (e.g. drought):
- Locate the selected subject term in Chapter II: "Subject Term Index" and find the set of codes which relates to the relevant organization.
 - Find the organizations by their codes in Chapter IV: "Description of Organizations".
- C. Geographical location (region and/or country):
- From Chapter III: "Geographical Location Index", get the page number(s) of the country(ies) or region of your interest.
 - Go to the page indicated.

ABBREVIATIONS

ABEDA	Arab Bank for Economic Development
Agric.	Agriculture (En.Fr) Agricultura (Sp.)
CEAO	West Africa Economic Community
CIDA	Canadian International Development Agency
CILSS	Permanent Interstate Committee on Drought Control in the Sahel
Comm.	Commission (En., Fr.) Comision (Sp.)
CSIRO	Commonwealth Scientific and Industrial Research Organization
Conserv.	Conservation (En., Fr.) Conservación (Sp.)
Coop.	Cooperation (En., Fr.) Cooperación (Sp.)
DANIDA	Danish International Development Agency
Dept.	Department (En.) Departement (Fr.) Departamento (Sp.)
Dev.	Development (En.)
Dir.	Direction (En., Fr.) Dirección (Sp.)
Div.	Division (En., Fr., Sp.)
ECA	Economic Commission for Africa
ECE	Economic Commission for Europe
Educ.	Education (En.,Fr.)
ECWA	Economic Commission for Western Asia
EEC	European Economic Community
Env.	Environment (En.)
Establ.	Establishment (En.) Etablissement (Fr.) Establecimiento (Sp.)
ETMA	Environmental Training and Management in Africa

Fac.	Faculty (En.) Faculté (Fr.) Facultad (Sp.)
FAO	Food and Agriculture Organization of the United Nations
FINIDA	Finish International Development Agency
IAEA	International Atomic Energy Agency
ICIPE	International Centre for Insect Physiology and Ecology
ICRISAT	International Crops Research Institute for the Semi-Arid Tropics
IBRD	International Bank for Reconstruction and Development
IDB	Islamic Development Bank
IDRC	International Development Research Centre
IFAD	International Fund for Agricultural Development
IITA	International Institute of Tropical Agriculture
ILCA	International Livestock Centre for Africa
ILO	International Labour Organization
Inst.	Institute (En.) Institut (Fr.) Instituto (Sp.)
Internat.	International (En., Fr.)
IPAL	Integrated Project on Arid Lands
IUCN	International Union for the Conservation of Nature
Lab.	Laboratory (En.) Laboratoire (Fr.) Laboratorio (Sp.)
MAB	Man and Biosphere Programme-UNESCO
Manag.	Management (En.)
Min.	Ministry (En.) Ministère (Fr.) Ministerio (Sp.)
Nat.	National (En., Fr.) Nacional (Sp.)
NGO	Non-Governmental Organization
OUA	Organization of African Unity

OECD	Organization for Economic Co-operation and Development
Org.	Organization (En.) Organisation (Fr.) Organización (Sp.)
ORSTROM	Office de la Recherche Scientifique et Technique Outre-Mer
Prod.	Production (En., Fr.) Producción (Sp.)
Reg.	Regional (En., Fr., Sp.)
Sc.	Science (En., Fr.)
SIDA	Swedish International Development Authority
Tech.	Technology (En.) Technologie (Fr.) Tecnología (Sp.)
UNCHS	United Nations Conference for Human Settlements
UNDP	United Nations Development Programme
UNDTCD	United Nations Department of Technical Co-operation for Development
UNEP	United Nations Environment Programme
UNESCO	United Nations Educational, Scientific and Cultural Organization
UNICEF	United Nations Children's Fund
UNIDO	United Nations Industrial Development Organization
Univ.	University(En.) Université(Fr.) Universidad(Sp.)
UNSO	United Nations Sudano-Sahelian Office
USAID	United States Agency for International Development
WFP	World Food Programme
WHO	World Health Organization
WMO	World Meteorological Organization
WWF	World Wildlife Fund

CHAPTER I

ALPHABETIC INDEX OF ORGANIZATIONS

<u>Organization</u>	<u>Code</u>
AGMA - Lab. de la Roquette. (France)	C120
Academy of Scientific Research and Tech./Egyptian Remote Sensing Centre (Egypt)	K821
Africa News Environment Network (Kenya)	L417
African Training & Research Centre for Women - UNECA (Ethiopia)	K900
Africare. (USA)	B158
Agrhymet. (Niger)	M300
Agric. Affairs & Fish Resources Authority. (Kuwait)	G500
Agric. Canada/Range Research Station. (Canada)	B008
Agric. Canada Research Station. (Canada)	B007
Agric. Research Centre. (Libya)	L600
Agric. Research Corporation. (Sudan)	M800
Agric. Research Div. (Lesotho)	M500
Agric. Research Org. /Forestry Div. (Israel)	G300
Agronomic Research Co-ordination Unit. (Ethiopia)	K901
Alain Municipality/Horticulture Section. (U.A. Emirates)	H300
Alexandria Univ./ Dept. of Botany/Ecology Lab. (Egypt)	K817
Alfateh Univ./Fac. of Agric. (Libya)	L601
American Univ. in Cairo/Desert Dev. Center. (Egypt)	K815
Animal Prod. Research Unit. (Botswana)	K303
Arab Center for the Studies of Arid Zones & Dry lands. (Syria)	H101
Arab Org. for Agric. Dev. (Sudan)	M814
Ardhi Inst. (Tanzania)	M900
Arid Land Research Center. (U.A. Emirates)	H301
Arizona State Univ./ Lab. of Climatology. (U.S.A.)	B104
Arizona-Sonora Desert Museum. (U.S.A.)	B103
Association des Clubs des Amis de la Nature. (Cameroon)	K414
Association for the Dev. of Agric. Sc. in Africa. (Ethiopia)	K902
Association Française des Volontaires du Progrés. (France)	C128
Association Pour la Sauvegarde de l'Environnement. (Madagascar)	L700
Australian Nat. Univ. /Dept. of Demography. (Australia)	E002
Autorité du Bassin du Niger (Niger)	M301
Azerb SSR Academy of Sc. /Inst. of Geography. (U.S.S.R.)	E500
Bioclimatologie INRA-INA PG. (France)	C162
Botanical Survey of India. (India)	E200
Botswana Agric. College. (Botswana)	K300
Botswana Tech. Centre. (Botswana)	K302
Boyce Thompsom Southwestern Arboretum. (U.S.A.)	B105
Brace Research Inst. (Canada)	B000
Bureau of Mineral Resources - Geology & Geophysics. (Australia)	E004
Bureau of Reclamation/Engineering & Research Center. (U.S.A.)	B147
Bureau pour le Dev. et la Prod. Agricole. (France)	C132
Bureau Regional de l'UNSO. (Burkina-Faso)	N217
CNRS - Lab. d'Information et de Documentation en Géographie. (France)	C108
CRBT (Algeria)	K002

<u>Organization</u>	<u>Code</u>
Cairo Univ./Inst. of African Research & Studies. (Egypt)	K819
Canadian Hunger Foundation. (Canada)	B001
Catholic Diocese of Meru. (Kenya)	L418
Central Agric. Research Center. (U.S.A.)	B107
Central Agric. Research Station. (Yemen A.R.)	H400
Central Arid Zone Research Inst. (India)	E203
Central Soil Salinity Research Inst./Karnal. (India)	E204
Centre Burkinabe de la Recherche Scientifique. (B-Faso)	N207
Centre d'Etude et d'Experimentation du Machinisme Agricole Tropicale. (France)	C105
Centre d'Etudes de Géographie Tropicale. (France)	C102
Centre d'Etudes Economiques et Sociales de l'Afrique de l'Ouest (B-Faso)	N203
Centre d'Etudes et Realisations Cartographiques Geographiques. (France)	C139
Centre d'Etudes Phytosociologiques et Ecologiques l'Emberger. (B-Faso)	N205
Centre de Coop. Internat. en Recherche Agronomique pour le Dev. (France)	C115
Centre de Formation Maraichere Adventiste - Bazega. (B-Faso)	N218
Centre de Formation Professionnelle Forestière de Morondava. (Madagascar)	L702
Centre de Geographie Appliquée. (France)	C144
Centre de Recherche du Génie Rural. (Tunisia)	N000
Centre de Recherche Zootechnique Koida. (Senegal)	M504
Centre de Recherches Forestières. (Cameroon)	K400
Centre de Recherches Géologiques et Minières. (Cameroon)	K401
Centre for Agrobiological Research. (Netherlands)	C402
Centre for the Application of Sc. & Tech. for Rural Areas. (India)	E207
Centre for the Study of Dev. Societies. (India)	E201
Centre Nat. d'Elevage et de Recherches Veterinaires. (Mauritania)	L901
Centre Nat. de Recherche Agronomique et Dev. Agricole de Kaédi. (Mauritania)	L902
Centre Nat. de Recherches Agronomiques. (Senegal)	M502
Centre Nat. de Recherches Forestières ISRA/CNRF. (Senegal)	M503
Centre Nat. du Machinisme Agricole du Genie Rural des Eaux et des Forêts. (France)	C145
Centre Nat. de la Recherche Scientifique et Technologique. (B-Faso)	N206
Centre of Agric. Mechanization & Rural Tech. (Tanzania)	M911
Centre Regional Africain de Technologie. (Senegal)	M501
Centre Regional de Teledetection. (B-Faso)	N-208
Centre Tech. Forestière Tropical. (B-Faso)	N-204
Centre Technique Forestière Tropical. (France)	C110
Centro de Ecología y Recursos Naturales Renovables. (Argentina)	I015
Centro de Estudios Espaciales. (Chile)	I311
Centro de Investigaciones en Química Aplicada. (Mexico)	I704
Centro de Investigacion de Zonas Aridas. (Peru)	I904
Centro de Investigaciones Agricolas del Nordeste. (Mexico)	I721
Centro de Investigaciones Biologicas de B.C.S. (Mexico)	I703
Centro de Estudos Agrários. (Cape Verde)	K505
Centro de Investigaciones Agrícolas del Golfo Norte. (Mexico)	I737
Centro Regional de Agua Subterránea. (Argentina)	I001

<u>Organization</u>	<u>Code</u>
Chihuahuan Desert Research Inst. (U.S.A.)	B109
Cirad-Irat. (B-Faso)	N213
Clark Univ. /Programme for Internat. Dev. (U.S.A.)	B138
Colorado State Univ./Nat. Resource Ecology Lab. (U.S.A.)	B127
Comm. Nat. de Geografia. (Chile)	I302
Comité Interafricain d'Etudes Hydrauliques. (B-Faso)	N209
Comité Permanent Inter-Etats de la Lutte Contre la Secheresse Dans le Sahel. (B-Faso)	N211
Comm. Nat. de las Zonas Aridas. (Mexico)	I707
Conserv. & Forestry Div. (Lesotho)	L501
Conserv. Comm. of the Northern Territory. (Australia)	E018
Consortium of Internat. Dev. (U.S.A.)	B111
Corporación Nat. Forestal. (Chile)	I303
Corporación de Fomento de la Prod. (Chile)	I310
Council of Scientific Research/Agric. & Water Resources Research Centre. (Iraq)	G200
CSIRO Div. of Horticultural Research. (Australia)	E008
CSIRO Div. of Applied Organic Chemistry. (Australia)	E005
CSIRO Div. of Groundwater Research. (Australia)	E011
CSIRO Div. of Wildlife & Rangelands Research. (Australia)	E010
CSIRO Div. of Wildlife & Rangelands Research. (Australia)	E016
Dept. Animal Health & Prod. (Gambia)	L000
Dept. de Ingenieria de Suelos. (Chile)	I307
Dept. des Recherches Forestières. (Niger)	M302
Dept. of Agric. Western Australia/Rangeland Manag. Branch. (Australia)	E033
Dept. of Environment. (Iran)	G102
Dept. of Land Surveys & Physical Planning. (Lesotho)	L504
Dept. of Meteorology. (Sudan)	M808
Dept. of Nat. Parks & Wildlife Manag. (Zimbabwe)	N405
Dept. of Rural Dev. (Zimbabwe)	N409
Dept. of Veterinary - Pasture & Range Manag. (Uganda)	N103
Dept. of Water Affairs. (Lesotho)	L507
Dept. of Water Affairs. (Botswana)	K315
Desert Ecological Research Unit. (Namibia)	M201
Desert Locust Control Org. for Eastern Africa. (Ethiopia)	K905
Desert Research Inst. (Egypt)	K805
Desert Tortoise Council. (U.S.A.)	B161
Dir. de Forêts. (Chad)	K600
Dir. de l'Agriculture. (Benin)	K201
Dir. de la Recherche Forestière/Dept. de la Recherche Agronomique. (Benin)	K203
Dir. des Eaux et Forêts et de la Conserv. de Sols. (Morocco)	M009
Dir. des Forêts et de la Faune. (Niger)	M303
Dir. des Forêts - Chasse et Lutte Contre la Désertification. (Chad)	K607
Dir. des Ressources en Eau et de la Meteo. (Chad)	K608
Dir. des Sols. (Tunisia)	N002
Dir. du Genie Rural. (Benin)	K209
Dir. du Genie Rural. (Chad)	K601
Dir. Nat. des Eaux et Forêts. (Mali)	L801
Dir. Nat. des Eaux et Forêts. (Benin)	K202

<u>Organization</u>	<u>Code</u>
Dir. Prefectorale des Eaux et Forêts. (Guinea)	L200
Dir. Regional Patagonia - INTA. (Argentina)	I005
Directorate of Land Reclamation Punjab. (Pakistan)	E400
Div. of Forest Research. (Zambia)	N304
Div. of Land Utilization. (Botswana)	K308
Drainage Research Inst. (Egypt)	K806
Duntech Irrigation Service Ltd. (U. Kingdom)	C822
Eclaireuses/Eclaireurs de Burkina Faso. (B-Faso)	N218
Ecole Nat. Forestière d'Ingenieurs. (Morocco)	M000
Economic & Social Comm. for Asia & the Pacific - ESCAP. (Thailand)	E600
Economic Comm. for Africa - ECA. (Ethiopia)	K919
Economic Comm. for Latin America - ECLA. (Chile)	I312
Economic Comm. for West Asia - ECWA. (Iraq)	G209
Ecothèque Mediterraneenne. (France)	C109
Envipact. (France)	C167
Environmental Liaison Centre (Kenya)	L405
Establissement d'Enseignement Superieur des Sciences Agronomiques. (Madagascar)	
Estación Experimental Agropecuaria Catamarca - INTA. (Argentina)	I004
Estación Experimental Agropecuaria San Juan - INTA. (Argentina)	I019
Estación Experimental Agropecuaria San Luis. (Argentina)	I002
Estación Experimental Agropecuaria Santiago del Estero - INTA. (Argentina)	I020
Estación Experimental Zonas Aridas. (Spain)	C500
Federal Dept. of Forestry. (Nigeria)	M405
Federal Inst. for Geosciences & Natural Resources. (F.R. Germany)	C200
Fonds Mondial pour la Nature. (Madagascar)	L710
Food & Agric. Org. of the United Nations. (Italy)	C302
Forest & Bee Keeping Div. (Tanzania)	M902
Forest Administration. (Sudan)	M801
Forest Association of Botswana.	K320
Forest Research Centre. (Sudan)	M805
Forest Research Inst. (Uganda)	N105
Forestry & Range Org. (Iran)	G100
Forestry Comm. (Zimbabwe)	N410
Forestry Dept. (Gambia)	L001
Forestry Dept. (Uganda)	N110
Forestry Research Dept. (Kenya)	L414
Forestry Research Inst. of Nigeria.	M408
Forests Administration. (Sudan)	M804
Fundação Joaquim Nabuco/Inst. de Pesquisas Sociais. (Brazil)	I201
General Directorate of Applied Agric. Research. (Iraq)	G206
General Directorate of Forestry. (Turkey)	H202
General Org. for Desert Rehabilitation. (Egypt)	K808
Geological & Mineral Resources Div./Geological Survey Dept. (Sudan)	M806
Grassland & Animal Husbandry Research Inst. (Turkey)	H200
Green Belt Movement. (Kenya)	L426
Groupe de Recherche et d'Applications Techniques. (Mali)	L812
Groupe de Recherche et Realisation pour le Dev. Rural. (France)	C151
Groupe de Recherche et d'Exchanges Tech. (France)	C166
Groupement d'Etudes et Realisations des Societés d'Amenagement Regional. (France)	C163

<u>Organization</u>	<u>Code</u>
Hebrew Univ./Dept. of Zoology. (Israel)	G305
Henderson Research Station. (Zimbabwe)	N411
Hlekwené Friends Rural Service Centre. (Zimbabwe)	N412
Hydro M. (France)	C100
Hydroponic Advisory & Information Unit. (U. Kingdom)	C803
ILCA/CIPEA. (Mali)	L802
Imperial College/Dept. of Aeronautics. (U. Kingdom)	C821
INADES-Information. (I-Coast)	N500
Indian Association of Biological Sc. (India)	E208
Inst. Agronomico per l'Oltremare. (Italy)	C300
Inst. Agronomique et Veterinaire Hassan II. (Morocco)	M002
Inst. Argentino de Investigaciones de las Zonas Aridas. (Argentina)	I009
Inst. d'Elevage et de Medecine Veterinaire des Pays Tropicaux. (France)	C117
Inst. de Ecología - A.C. (Mexico)	I715
Inst. de Investigacion de Recursos Naturales Iren-Corfo. (Chile)	I304
Inst. de Investigaciones de Zonas Deserticas. (Mexico)	I717
Inst. de Investigaciones Hidrologicas. (Chile)	I301
Inst. de la Recherche Agronomique. (Cameroon)	K404
Inst. de Pesquisa e Tecnologia. (Cape Verde)	K502
Inst. de Recherche en Biologie et Ecologie Tropical. (B-Faso)	N210
Inst. de Recherches en Sc. Humaines. (Niger)	M306
Inst. de Recherches Geologiques et Minières. (Cameroon)	K409
Inst. de Recherches sur Techniques d'Industrie, le Sol et le Sous-Sol. (Cameroon)	K405
Inst. des Regions Arides. (Tunisia)	N003
Inst. du Sahel. (Mali)	L806
Inst. for Agric. Research. (Nigeria)	M410
Inst. for Applied Research. (Israel)	G302
Inst. for Water Resources Research. (F.R. Germany)	C206
Inst. Geographique du Burkina Faso. (B-Faso)	N214
Inst. Geographique Nat. (France)	C119
Inst. Mexicano de Recursos Naturales Renovables. (Mexico)	I718
Inst. Mexicano de Tech. Apropriadas. (Mexico)	I720
Inst. Nat. des Sc. Humaines. (Chad)	K605
Inst. Nat. Agronomique Paris-Grignon/Lab. de Zoologie. (France)	C154
Inst. Nat. Agronomique. (Algeria)	K000
Inst. Nat. de Investigaciones Agricolas. (Mexico)	I724
Inst. nat. de Investigaciones Forestales. (Mexico)	I722
Inst. Nat. de Investigaciones Pecuarias. (Mexico)	I729
Inst. Nat. de la Recherche Agronomique d'Algerie. (Algeria)	K004
Inst. Nat. de la Recherche Agronomique de Tunisie. (Tunisia)	N004
Inst. Nat. de la Recherche Agronomique. (Morocco)	M007
Inst. Nat. de la Recherche Zootechnique - Forestière & Hydrobiologique. (Mali)	L804
Inst. Nat. de Recherche Forestière. (Algeria)	K005
Inst. Nat. de Recherches Forestières. (Tunisia)	N005
Inst. Nat. de Recherches Agronomique du Niger. (Niger)	M305
Inst. Nat. de Tech. Agropecuaria - EERA Alto Valle. (Argentina)	I022
Inst. Nat. de Tech. Agropecuaria/Estación Experimental Ramacaída. (Argentina)	I018

<u>Organization</u>	<u>Code</u>
Inst. Nat. de Tech. Agropecuaria-INTA. (Argentina)	I007
Inst. Nat. de Tech. Agropecuaria. EERA Anguil. (Argentina)	I021
Inst. of Agric. & Agrarian Reform/Steppe Range & Sheep Directorate. (Syria)	H105
Inst. of Agric. Engineering. (Zimbabwe)	N413
Inst. of Agric. Research. (Ethiopia)	N413
Inst. of Agric. Research. (Nigeria)	M411
Inst. of Animal Research-IRZ. (Cameroon)	K407
Inst. of Environmental Studies. (Sudan)	M807
Inst. of Soil Sc. & Photosynthesis. (U.S.S.R.)	E501
Inst. of Soils & Water/Aro-Volcani Centre. (Israel)	G309
Inst. Panafricain Pour le Dev./Dir. Regionale Afrique de l'Ouest-Sahel. (B-Faso)	N220
Inst. Polytechnique Gamal Abdel Nasser. (Guinea)	L210
Inst. Polytechnique Rural Katibongou. (Mali)	L805
Inst. Scientifique. (Morocco)	M003
Inst. Sedue. (Mexico)	I709
Inst. Supérieur d'Etudes et de Recherches Scientifiques et Techniques. (Djibouti)	K700
Inst. Tech. de l'Elevage Ovin et Caprin. (France)	C156
Inst. Tech. y de Estudios Superiores de Monterrey. (Mexico)	I719
Inst. Sénégalais de Recherches Agricoles/Centre Nat. de Recherches Forestières. (Senegal)	M508
Inter-African Bureau for Animal Resources of the OAU. (Kenya)	L427
Inter-Comm. on the Application of Sc. to Agric. (Canada)	B006
Intermediate Tech. Dev. Group Ltd. (U. Kingdom)	C804
Interministerial Drought Committee. (Botswana)	K313
Internat. Bank for Reconstruction & Dev. (U.S.A.)	B118
Internat. Centre for Agric. Research in the Dry Areas. (Syria)	H106
Internat. Centre of Insect Physiology & Ecology. (Kenya)	L407
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Lab. de Cryptogramie. (France)	C143
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Lab. de l'Energie Solaire. (Mali)	L807
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Min. de l'Environnement/Dir. de l'Amenagement Forestière et du Reboisement. (B-Faso)	N212
Min. de l'Hydraulique de l'Environnement et des Forêts. (Algeria)	K006
Min. de la Prod. Agricole et de la Reforme Agraire. (Madagascar)	L709
Min. des Affaires Saheriennes et Nomades. (Niger)	M308
Min. do Interior/Superintendencia do Desenvolvimento do Nordeste (Brazil)	I207
Min. du Dev. Rural/Dir. de la Protection de la Nature. (Mauritania)	L905
Min. du Dev. Rural de l'Action Coop./Dir. Nat. de Eaux et Forêts. (Benin)	K207
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Nat. Committee for Environment. (Sudan)	M809
Nat. Committee on Arid Zone Afforestation. (Nigeria)	M415
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UNESCO-Kenya Arid Lands Research Station. (Kenya)	L416
Unité de Recherche sur les Zones Arides - Lab. de Botanique. (Algeria)	K001
United Nations Dept. of Technical Coop. for Dev. (U.S.A.)	B134
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Univ. College London/Dept. of Geography. (U. Kingdom)	C814
Univ. de Buenos Aires/Fac. de Agronomía. (Argentina)	I011
Univ. de Dakar/Fac. des Lettres et Sc. Humaines/Lab. de Biogéographie. (Senegal)	M505
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Univ. Nat. de Cuyo/Inst. de Suelos y Riego. (Argentina)	I016
Univ. Nat. du Benin/Fac. de Sc. Agronomiques. (Benin)	K204
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Univ. of Botswana/Nat. Inst. of Dev. & Documentation (Botswana).	K317
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Univ. of Damascus/Fac. of Agric./Dept. of Soils - Dept. Animal Prod. (Syria)	H104
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K915	L601	L901	M308	M404	N102	N211	N217			

DRY FARMING

B007	B101	B101	B107	B178	C145	C302	C805	E032	E209	E211
E403	G104	G209	H008	I002	I020	I310	I735	K309	K318	K909
L601	L806	M418	N411							

EARTHQUAKES

B150

ECOLOGY

B008	B127	B136	B138	B160	C109	C203	C302	C402	C500	C803
E016	E041	E208	E212	E215	E218	E503	G203	G204	G300	G304
G316	G501	H104	I015	I018	I703	I718	I721	I737	I902	I904
K308	K909	L404	L416	L502	L806	M302	M303	M416	M514	M516
M910	N003	N005	N103	N206	N207	N210	N210	N304	N402	N405
N414	N500									

ECONOMIC DEVELOPMENT

B138	B149	C109	C115	C163	C804	E201	E203	E204	E211	E212
G313	I721	I729	I735	K000	K317	K412	K505	K602	K819	K902
M000	M002	M305	M800	N003	N004	N207	N216			

ECONOMIC PLANTS

B105	I020	I310	I704	I707	M411					
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ECOSYSTEMS

B101	B116	B127	B161	B163	C114	C817	E200	E219	E222	G308
G405	I002	I715	I902	K002	K208	M002	M807	N005	N109	N210
N405										

ENCROACHMENT

E200

ENDANGERED PLANT SPECIES

E200

ENERGY

B119	B147	C162	C167	E207	I308	K318	K405	K409	K502	L405
L413	L806	L812	M404	M909	M911	N303	N416			

ENTOMOLOGY

C154	C500	E211	G604	K412	K905	L407	L414	M003	M005	M418
M514	M800	M910	N004	N304						

FOOD SUPPLY

B001 B158 C102 C303 K313 K900 M814 M904 N219

FORAGE GRASSES

I020 K407 K909 L802

FORAGE PLANTS

C162 E200 G604 I004 I009 I020 I021 I721 K407 K909 K914
L804 M007 M504 N217

FORAGE PRODUCTION

B007 B008 B119 B137 C166 E403 G604 H001 H200 I002 I004
I009 I018 I020 I021 I721 I729 K407 K914 L802 L804 M007
N217

FORAGE SUPPLY

K407

FOREST FIRES

B150 L002 L200 L704

FOREST MANAGEMENT

G302 I207 I303 I722 I900 K005 K005 K207 K320 K504 L001
L409 L702 L801 L805 M004 M408 M803 N101 N105 N110 N210
N101 N105 N110 N210 N216 N217

FOREST PRODUCTS

C800 G100 G300 I020 I303 I722 K307 K600 K607 L001 L409
L410 L414 L430 L702 L905 M407 M408 M503 M508 M901 N105
N110 N420

FORESTRY

B101 B107 B111 B118 B123 B130 B133 B146 B149 B155 B158
B160 C110 C115 C132 C143 C145 C159 C163 C166 C300 C303
C402 C701 C805 C808 E023 E025 E032 E033 E207 E209 E212
E214 E301 G204 G206 G209 G302 G304 C300 C303 C402 C701
C805 C808 E023 E025 E032 E033 E207 E209 E212 E214 E301
G204 G206 G209 G302 G304 L409 L410 L414 L415 L431 L501
L502 L600 L702 L703 L704 L709 L801 L804 L806 L812 M000
M005 M009 M203 M305 M405 M407 M408 M415 M420 M503 M508
M600 M604 M800 M803 M805 M810 M810 M814 M901 M902 M904
M912 N004 N005 N100 N107 N204 N206 N210 N212 N302 N303
N304 N400 N500

FORESTS

B003 B135 C303 C800 C810 C816 H003 H104 H300 I018 I207
I713 I722 I902 K202 K207 K307 K414 K700 K916 L002 L409
L410 L415 L418 L426 L702 L703 L905 M009 M407 M408 M503
M506 M804 M809 M810 N005 N101 N109 N221 N418

FOSSILS

E004 M804 M806

FUELWOOD

B127 I015 I735 M404

GEOCHEMICAL EXPLORATIONS

E004 K401 K900 M806

GEOCHEMISTRY

B150 E004

GEOGRAPHY

C102 C108 C119 C144 C806 C812 C815 E000 E030 E032 E600
G401 H002 I012 I302 I713 I715 K412 K605 K819 L211 L400
L411 L428 L504 L705 M305 M514 N102 N214

GEOLOGY

E000 E004 E026 I302 I902 K401 K405 K805 K821 M003 M404
M514 M806 N208

GEOMORPHOLOGY

C203 C204 C814 E004 I302 I713 I715 K401 K609 K805 L400
L428 M003 M806

GOATS

N411 N414

GRASSES

B102 B165 E024 E025 E408 I020 L503 N414

GRASSLANDS

B139 B165 C302 E024 E025 G201 H005 H102 H200 I009 I020
I021 I022 I729 I902 K407 L429 L503 L708 L802 M800 M904
M906 N005 N210 N210

GRAZING

B110 B121 B130 B139 B165 C114 C117 C156 C302 C303 E000
E001 E023 E024 E025 E033 E403 G201 G405 G501 G502 H101
I020 I022 I729 K303 K308 K407 K603 L000 L426 L429 L503
L802 L901 M305 M807 M812 M905 N005 N103 N402 N408

GREENBELTS

C163 C303 C810 C816 G500 H300 K005 K414 K916 L001 L426
L900 N218

GREENHOUSES

G901 H301 M411

GROUNDWATER

C200 E004 E026 G202 G304 G405 G900 I001 K404 K811 K821
N104 N208 N209

HABITATS

M002 N109

HORTICULTURE

B105 B137 C300 E008 E023 H301 I004 I310 I313 K805 L806
L811 M002 M410 M411 M800 N213 N219

HOUSING (SHELTERS)

B123 E002 E026 G321 K918 M315

HUMAN BEHAVIOUR

K605 M306

HUMAN FACTOR STUDIES

B138 B160 E201 E203 G321 I902 K412 K605

HUMAN HEALTH

B155 B158 C102 C120 C166 C701 C707 C810 E214 G903 I207
K309 K317 K412 L806 M308 M514 M900 M904 N203 N218

HUNTING

K207 L905 M004

HYDROGEOLOGIC MAPS

B118 C114 C708 E032 E218 I902 K405 K412 K608 K919 L502
L709 L909 M301 M514 M909 N104

HYDROGEOLOGY

C145

HYDROLOGY

B001 B114 B147 B158 B178 C144 C150 C163 C200 C206 C401
C804 E207 E209 E212 E222 E301 G104 G302 G309 G403 G701
I001 I009 I304 I311 I724 I900 K207 K313 K404 K505 K805
K808 K914 L300 L403 L507 M807 M909 N209 N307 N416

HYDROPONICS

C803 C822 K001

INSECTS

C154 E215 K905

INVERTEBRATES

E000 E215 G305

IRRIGATED AGRICULTURE

8119 C163 E008 G800 H001 I020 K601 L804 M413 M502 N003

IRRIGATED SOILS

B116 G202 K804

IRRIGATION

B101 B128 B152 B178 C162 C166 C206 C302 C401 C817 C822
E027 E212 E300 E301 G203 G204 G208 G309 G403 G800 H001
H003 H201 I005 I020 I703 I719 I735 K503 K505 K601 K806
K901 L400 L502 L600 L709 L801 L909 M813 M814 M909 N002
N217 N409

IRRIGATION EFFECTS											
B152	E300	I022	N000								
IRRIGATION PRACTICES											
B119	E018	E300	E400	G304	I019	I707	N000				
IRRIGATION PROGRAMMES											
B147	G403	I019	I019	I707	L909	M410	M813	N409			
IRRIGATION SYSTEMS											
B153	C166	C808	C822	E301	E400	E501	H101	H301	I002	I016	
I313	I709	K809	L806	M813							
LAKES											
B128	B147	C206	C302	I707	K207	K209	M404				
LAND CLASSIFICATION											
B181	E030	I902	K310	L002	L200	L900	M600	N002			
LAND CONSERVATION											
B103	C110	C114	C145	C806	E018	E030	E032	E400	E500	E503	
G100	G311	G401	G405	H002	H101	K308	K909	L400	L403		
L411	L900	M009	M411	M812	M900	M902	M905	N220	N403	N404	
LAND DEGRADATION											
E403	E500	G102	H202	K308	L401	M411	M419	M812			
LAND EVALUATION											
C807	I709	M001	M906	N006							
LAND MANAGEMENT											
B002	B008	B130	B141	C115	C401	C806	E001	E018	E030	E033	
E212	G302	G319	G800	G902	H002	H101	H200	I007	I902	K303	
K304	K909	K915	L000	L002	L210	L400	L427	L429	L431	L500	
L504	L802	M803	M900	N220	N404	N409	N414				
LAND RECLAMATION											
B118	B181	C145	C402	C803	E000	E018	E022	E204	E214	E220	
E400	G100	G208	G309	G701	H005	H106	H400	I707	K001	K311	
K407	K601	K805	K808	K811	K814	K914	K918	L200	L602	M004	
M805	M810	M813	M902	M904	N221	N300	N404	N408	N409		
LAND REFORM											
B133	C102										
LAND RESOURCES											
C144	C302	C806	C815	E016	E018	E033	G100	G302	H002	H101	
K308	K918	L410	L411	L427	L504	M812	N220	N403			
LAND USE											
B118	B128	B141	C114	C119	C401	C806	C812	C815	E018	E400	
E407	E500	E503	G100	G102	G401	I012	I713	I717	I900	I902	
K503	K814	K817	K910	K915	K918	L409	L410	L411	L431	L501	
L502	L504	L507	M803	M813	M900	M909	N104	N215	N404	N409	

LANDSCAPE

C145 L700 M002

LEGUMINOSAE

C132 K407

LIVESTOCK

B111 B118 B130 B148 B158 B165 C114 C117 C156 C157 E023
E215 E403 E408 G800 H101 I009 I020 I022 I729 I900 K303
K309 K311 K407 K603 K604 K808 K815 K909 L000 L004 L401
L407 N003 N103 N414 N500

MAMMALS

G316

MAPPING AND CARTOGRAPHY

B139 B171 C102 C108 C114 C119 C136 C139 C302 C815 C817
E407 G501G900 H101 I007 I008 I018 I020 I304 I311 I717
I725 I902 K002 K004 K308 K310 K311 K401 K407 K409 K604
K814 K817 K821 K910 L002 L211 L411 L431 L504 M000 M505
M806 N205 N214 N402 N408 N410

MARGINAL LANDS

G100 G104 H008 K607 K916 L709 M007 M405 M408 M420 M506
M604 M805 M810

METEOROLOGY

L507

MICROCLIMATOLOGY

I704 M408

MICRONUTRIENTS

E220 H101 K001 L403

MIGRATIONS

C114 C162 K503 K806 M503 M514

MINERALOGY

E004 E050 G209 G900 M806

MIST

B128 B147 C206 C302 I707 K207 K209 M404

MOUNTAINS

C807 E403 G401 G701 H202 K308 L401 L502 M812 M906 N006

NATURAL RESOURCES

B116 B128 B135 B146 B158 B160 C110 C123 C144 C145 C159
E023 E222 G302 G900 H101 I005 I007 I009 I207 I304 I306
I704 I718 I735 I902 K002 K204 K505 K805 K808 K915
L004 L413 L417 L600 L801 L804 M303 M904 N208 N217 N305
N401 N420

NATURE

B161 C110 C145 C200 E016 E501 G404 I005 I007 I718 I902
L209 L300 L413 L501 L700 L710 L801 L900 M004 M303 M516

NITROGEN FIXATION

B102 B163 E203 H106 K001 K809 L403 M503 M514 N402

NOMADISM

B002 B127 E002

NON-ARABLE AGRICULTURE

K305

NUTRIENTS

C803 K817 L403 N402

OASIS

K607 K821 L900 M007 N006

OVERFARMING

L002

OVERGRAZING

B128 C303 H202 K202 K600 K701 L200 L209 L709 L900 M415
M503 N006 N206 N217

PARKS AND RESERVES

B103 C302 E026 E200 G102 G401 G404 G502 H101 H300 I715
K207 L209 L700 M004 M604 M910 N405

PASTORALISM

B002 B127 C114 C115 C117 C139 C156 C300 C302 C807 C808
C818 E000 E018 E023 E026 E033 E048 G209 I020 I022 K006
K204 K209 K603 K604 K909 L401 L427 L429 L802 L805 L806
L901 M000 M001 M005 M305 M812 N003 N005 N006

PASTURES

B128 C114 C302 E000 E023 H005 H106 I002 I015 I021 I729
I735 K407 K503 K909 L401 L429 L709 L802 L804 M305 M413
M800 M810 M812 M902 M906 N003 N005 N103 N411

PEST CONTROL IN ANIMALS

C143 C500 C701 I021 K503 K603 K909 L000 L407 M305 M413
M505 M906

PEST MANAG. & CONTROL

C128 C154 C800 E203 G316 K005 K503 K901 K905 L407 M416
M906

PHOTOSYNTHESIS

E501

PHYTOGEOGRAPHY

K002 K817

PHYTOPATHOLOGY
I737 M800

PLANT ADAPTATION

B101	B121	E220	E403	G100	G104	G201	G304	G701	H001	H002
H101	H300	H301	I020	I303	I307	I310	I707	I709	I904	K006
K202	K310	K407	K600	K819	L902	M001	M005	M303	M405	M600

PLANT BIOLOGY

E211	E220	I019	I307	I313	I703	I704	I717	I737	K001	K902
M005	M305	M411	M901	N302						

PLANT BREEDING

B007	B101	B121	B146	E008	E211	G300	G604	H101	I019	I735
L704	L902	M305	M410	M411	M418	M419	M503	M508	M800	

PLANT CHEMISTRY
I704

PLANT COMMUNITIES
L404

PLANT DISTRIBUTION

B141	L404	L804
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PLANT ECOLOGY

C402	E024	E301	G202	G203	G405	I015	I019	I313	I717	I721
I737	L401	L902	M006	M201	M305	N205				

PLANT GENETICS

B102	B137	E008	E204	E211	G300	H101	I021	I721	I724	K001
K004	L804	M302	M302	M303	M416	M502	N004	N204		

PLANT GROWTH

C162	C402	E008	I019	I704	L902	M411
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PLANT NUTRITION

B121	B146	C402	E050	N004
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PLANT PATHOLOGY

E211	I018	I021	L414	M410	M411	M418	M502	M800	N304
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PLANT PHYSIOLOGY

B008	B102	B106	B114	C115	C162	C402	E008	E204	E211	E301
G104	G309	G501	I018	I704	I717	K001	M006	M006	M508	N004

PLANT POPULATIONS

E016	K901	L408	M418
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PLANT STUDIES

B105	B139	B152	C154	E033	E041	E048	E203	E208	H002	H101
I020	I704	K001	K407	L902	N004					

PLANT TAXONOMY

G202	G203	G405	H104	L404
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PLANT USES

B105 G203 G405 H104 L404

PLANTING MANAGEMENT

B121 C810 C816 G100 G201 G208 G701 H002 I018 I704 K203
K306 K308 K901 L001 L405 L406 L426 L430 L812 L900 L905
M407 M419 M503 M809 N107

PLANTS

B008 B102 B103 B105 B121 C154 C500 G901 H104 L404 M304
M800 N004

POST-HARVEST CONSERV.

C166 C800 I720 L704 L811 M416 M501

RAINFED AGRICULTURE

C300 G208 H106 I719 L500 M413

RANGE LANDS

B101 B107 B111 B118 B123 B130 B133 B146 B149 B155 B158
B160 C110 C115 C132 C143 C145 C159 C163 C166 C815 E001
E010 E011 E016 E018 E023 E025 E026 E033 E041 E048 G201
G319 G502 G902 H001 H002 H003 H005 H101 H104 H200 I018
I022 I902 K005 K207 K208 K303 K310 K311 K909 L000 L210
L400 L410 L416 L427 L500 L503 L802 L514 M604 M800 M803
M812 M904 N003 N005 N103 N414

REAFFORESTATION

B110 B135 C110 C114 C300 K000 K001 K207 K601 K914 K916
L001 L401 L427 L801 L804 M000 M004 M005 M009 M408 M411
M419 M420 M516 M812 N210 N216 N218 N304 N408

RECREATION

N401

RELIEF ACTIVITIES

C128 C810 K308 K313 K918 N219

REMOTE SENSING

B002 B114 B123 B133 B153 C115 C119 C123 C128 C136
C144 C145 C150 C162 C163 C200 C302 C402 C816 C817
E000 E004 E026 E204 E301 G304 G311 G403 G502 G900
G903 I001 I301 I303 I304 I304 I311 I711 K208 K304
K809 K821 M003 N208 N410

RENEWABLE ENERGY

B000 C105 C167 C708 G209 K302 K815 L417 M315 N217

REPTILES

C500 E023 E215 G305

RESERVOIRS

B114 B133 C144 C145 C206 E032 E218 G319 I009 L507 M301
N307 N414

RIVERS

B007 B118 B119 B147 B152 C114 C803 E008 E011 E204 G202
G309 G901 H301 I311 I709 K815 N000

RODENTS

B159

RUNOFF

B150 C145 E212 L507

RURAL DEV. & PLANNING

B001 B101 B118 B123 B128 B133 B134 B138 B149 B158 C100
C102 C105 C109 C115 C128 C132 C145 C151 C158 C159 C166
C303 C401 C705 C804 C808 C818 E030 E207 E214 G209
G313 G321 G401 G500 H002 H201 I201 I300 I310 I312 I707
K900 K902 K915 L413 L416 L417 L505 L806 L909 M000 M002
M305 M306 M315 M411 M416 M502 M514 M813 M814 M900 M904
N003 N107 N110 N203 N211 N303 N403 N409 N412 N413 N416
N500

SALINE SOILS

B118 B152 C143 C821 E008 E032 E204 E220 E301 E400 E407
G201 G202 G203 G204 G405 H001 H002 H003 H005 I020 I313
K503 K804 K809 K814 K815 L600 M503 M514

SALINE WATER

B118 B150 C114 C151 C302 C401 I719 K315 K914 K918 L703
L806 M803 N100

SAND DUNES

B128 B171 C114 C203 C302 C303 C810 C822 E301 G100 G104
G201 G202 G206 G208 G900 G901 H002 H003 H005 H008 H009
H101 H102 H202 I303 K000 K001 K004 K006 K308 K310 K311
K607 K805 K821 L431 L602 L900 L905

SAND CONTROL

B134 B171 C114 C821 G100 G104 G201 G502 H008 K004 K005
K006 K804 L900 M600 N006

SAVANNAS

B114 B123 B141 B153 C100 C110 C115 C123 C144 C145 C163
C200 E301 G403 G502 H400 I207 I300 I301 K315

SEDIMENTS

C114 C150 C203 C206 E218 G501 G502 L400 L507 M301 N401
N416

SEEDS

B102 B118 B128 C300 G401 H102 I019 I020 I718 K407 L414
L902 M410 M411 M503

SEEPAGE

G319 K811

SOIL MANAGEMENT

B101	B107	B111	B118	B123	B130	B133	B146	B149	B155	B158
B160	B178	C110	C115	C132	C143	C144	C145	C159	C163	C166
C302	C705	E022	E214	E501	G208	G319	G401	I002	I007	I019
I021	I207	I303	I724	I725	I735	K005	K202	K400	K503	K504
K607	K701	K805	K815	K819	K902	K910	K914	K915	K918	L406
L411	L417	L431	L501	L704	L709	L900	L905	M004	M302	M604
M813	M905	M906	N002	N100	N206	N221	N305	N400	N405	

SOIL MAPS

E022	E407	G405	H002	H101	I007	K001	K503	L211	N002	
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SOIL MICROBIOLOGY

C143	E050	K001	M508	M514						
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SOIL PHYSICS

B152	B171	C206	E050	E211	E300	G309	G501	I725	L211	M305
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SOIL PROPERTIES

B171	C402	E050	E403	E407	E501	G501	H400			
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SOIL SCIENCE

B007	B008	B171	C145	C200	E010	E022	E048	E204	E501	G501
G901	H002	H003	H103	I002	I005	I007	I011	I725	I735	I737
I902	I904	K000	K004	K203	K404	K405	K412	K505	K701	L411
L414	L502	L600	M005	M303	M304	M800	N002	N304	N402	

SOIL SURVEYS

C815	E407	G319	G401	G800	H002	H003	H005	H104	H201	I713
K308	K815	K910	L211	L411	L501	M410	M419	M905	N002	N300
N408										

SOLAR ENERGY

B000	B119	B128	C120	C167	C708	E214	G304	G502	G903	H009
I300	I308	I709	K318	K502	L807	M315	N000			

STREAMS

B158	G104	G403	I001	I300	I301	K315	K808	N416		
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TECHNOLOGY TRANSFER

B146	C300	C302	I303							
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TERRACING

B150	C206	I301	K811							
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TILLAGE

B178	G311	L805	N413							
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TRAINING & EDUC. IN ENV.

C163	C303	C810	C816	G500	H300	K005	K414	K916	L001	L426
L900	N218									

TRAINING & EDUC. IN AGRIC.

B118	B137	B138	B149	B160	C115	C151	E025	E214	G203	G204
G505	H104	H106	I313	I719	I720	K300	K307	K309	K317	K505
L505	L704	L805	L806	M002	M300	M304	M308	M803	M905	N100
N219	N220	N412	N500							

TRAINING & EDUC. IN ANIMALS

B159 C151 C157 G305 I729 I735 K407 L805 L806 M002
M803 M906 N302 N402

TRAINING & EDUC. IN LANDS

B118 B147 B165 C114 C206 G300 H101 H103 I717 I735 K306
K315 K404 K409 K503 K505 K916 L406 L428 L430 L431 L502
L507 L702 L801 L805 L806 M000 M300 M407 M419 M505 M508
M901 N105 N204 N209 N212 N215

TRAINING & EDUC. IN SOILS

B109 B160 C818 E050 E203 G202 G203 H003 I302 I719 I725
K914 L403 L417 L431 M002 M505 M803 N003 N100 N400

TRAINING & EDUC. IN WATER

B150 B152 E407 K505

TRANSPORT

M904

URBAN AREAS

C102 C166 L504 L705 M807

URBAN PLANNING

C102 L504 M900

VEGETATION

B121 B127 B139 B163 B165 B181 C139 C162 C302 C402 E008
E010 E011 E024 E041 E200 E407 E408 G201 G401 G405 G501
H102 H103 I005 I009 I018 I022 I704 I715 I902 K002 K201
K204 K412 K503 K603 K607 K817 K819 K914 L001 L410 L411
L503 L700 L804 L806 L905 M003 M005 M305 M505 M910 N109
N205 N302 N402 N410

VERTEBRATES

E215 G305

WASTE WATER

B133

WATER ALLOCATION

C114 C162 K503 K806 M503 M514

WATER ANALYSIS

B128 B147 C166 G401 I704 K601 L209 L709 M411 M604 N206

WATER BALANCE

B147 E212 M301

WATER CONSERVATION

B007 B101 B133 B147 B158 C206 C401 C810 E403 H101 I009
I301 I707 I719 I900 I904 K302 K315 K318 K815 K914 K918
L403 L405 L905 M315 M604 M813 M905 M909 N307 N413 N416

WATER ENGINEERING

H101

WATER HARVESTING

E407 L400

WATER LAW

H101

WATER LOGGING

E407 L400

WATER MANAGEMENT

B003	B103	B118	B133	B134	B149	B155	C145	C166	C200	C303
C705	C807	E011	E208	E300	E403	G104	G208	G209	G311	G316
G901	H400	K000	K207	K209	K504	K808	K902	K914	K918	L905
M301	M315	M411	M502	M905	N100	N209				

WATER POLLUTION

B150 C707 G316 G405 I304 I717 K315 N307 N420

WATER QUALITY

B114 B147 B150 C100 C206 C707 E032 E204 E214 H003 I001
I902 K814 M514 N209 N307

WATER REQUIREM. IN CROPS

B152 B153 G309 G800 H005 H101 H106 H400 I313 K209 K505
N000

WATER RESOURCES

C300	C303	C402	C701	C805	C808	E023	E025	E032	E033	E207
E209	E212	E214	E301	G204	G206	G209	G302	G304	G209	G304
H005	H106	I019	I707	I902	K306	K318	K320	K916	K919	L004
L210	L406	L409	L416	L702	L704	M005	M407	M419	M502	M508
M806	M812	M901	M903	M904	M906	N101	N104	N105	N204	N210
N212	N217	N300	N408	N418						

WATER REUSE

B133 B153 E018 G304 G319 K806 N000

WATER SALINATION

B152 E026 G304 H301 K805 K8-6 K811 K814 L601

WATER SOURCES

B128 B150 C151 C163 M405 N416

WATER STORAGE

B158 K318 K821

WATER SUPPLY

B000 B114 B118 B155 B158 C206 C707 E408 G104 H201 I717
K313 K315 K900 M405 M909 N209 N300 N416

WATER TABLE

B150 E004 I019

WATER UTILIZATION

B147 B153 C401 G319 G405 H106 I707 I709 K308 K814 N000
N414

WATERSHED MANAGEMENT

B141 B150 C303 G104 I009 I304 I724 K503 M315 M807

WEED CONTROL

C402 I021 K303 L408 L801 M411 M418

WILDLIFE

B110 B135 B139 C114 C302 E016 G102 G201 G404 G902 I002
I009 L300 L410 L425 L700 L900 L905 M303 M408 M800 M910
N109 N302 N401 N405 N420

WIND EROSION

C114 C821 E407 G100 K000 K819 K907 M315

WIND POWER

B000 B128 B178 C151 C167 C708 I308 K318 K502 L807 M315
M912

WINDBREAKS

G100 G104 H008 K607 K916 L709 M405 M407 M408 M415 M420
M506 M604 M801 M805 M810

WOOD MANAGEMENT

G100 G104 H008 K607 K916 L709 M405 M407 M408 M415 M420
M506 M604 M801 M805 M810

CHAPTER III

GEOGRAPHICAL LOCATION INDEX

<u>REGION</u>	<u>COUNTRY</u>	<u>PAGE</u>	<u>CODE</u>
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	Cape Verde	338	K
	Chad	342	K
	Djibouti	351	K
	Egypt	353	K
	Ethiopia	364	K
	Gambia	375	L
	Ghana	-	L
	Guinea	379	L
	Guinea-Bissau	383	L
	Ivory Coast	560	N
	Kenya	384	L
	Lesotho	408	L
	Libya	415	L
	Madagascar	418	L
	Mali	425	L
	Mauritania	434	L
	Morocco	439	M
	Namibia	448	M
	Niger	449	M
	Nigeria	458	M
	Senegal	470	M
	Somalia	479	M
	Sudan	481	M
	Tanzania	495	M
	Tunisia	504	N
Uganda	510	N	
Zambia	539	N	
Zimbabwe	544	N	

CHAPTER IV

DESCRIPTION OF ORGANIZATIONS

Code: B000

Name: Brace Research Institute (BRI)

Address: P.O. Box 900, Macdonald College,
Ste. Anne de Bellevue
Quebec H9X 1C0

Cable/Telex: -/MCL SBLV 05-82 1788

Telephone: (514) 457 6477, (514) 457 2000 ext. 255/272

Name of the Head of
the Organ: T.A. Lawand

Title: Director

No. of Professionals:

Main Internal Organization: Director; Assistant Director; Professional and support
staff and worldwide associates

Subject Areas of Concern: Appropriate technology. Renewable energy. Water
supply. Solar energy. Wind power

Specific activities
being carried out: Research and development in solar distillation, solar
cookers and dryers, windmill power and biomass
applications.

New activities planned: Research and development in biomass briquetting from
agro-wastes, improved woodstores, alcohol fuel
production and use.

Publications: Technical reports, pamphlets, fact sheets.

Sources of Support: Trust fund administrated by McGill University,
numerous research and development contracts,
co-operation activities.

Fixed Experimental stations
and their activities: BRI Field Station, located on the McDonald College
Campus: Demonstration, testing and monitoring
research work.

Source of Information: R

Code: B001

Name: Canadian Hunger Foundation

Address: 323, Capel Street, Ottawa,
CANADA

Cable/Telex: -/053-4880

Telephone: (613) 237 01 80

Name of the Head of
the Organ: J. Laidlaw

Title: Executive Director

No. of Professionals: 6

Main Internal Organization:

Subject Areas of Concern: Rural development and planning. Food supply.
Agricultural products. Water resources. Appropriate
technology.

Specific activities
being carried out: Programmes related to above subject areas in 18
countries of the south.

New activities planned:

Publications: Newsletter: "Thought for Food" (quarterly), handbook
of appropriate technology.

Sources of Support: Private donations, corporate donations, grants from
government agencies.

Fixed Experimental stations
and their activities:

Source of Information: R

Code: B002

Name: IUAES Commission on Nomadic People

Address: C/o Dept. of Anthropology,
McGill University
855, Sherbrooke Street West,
Montreal, Quebec H3A 2T7
CANADA

Cable/Telex:

Telephone: (514) 392 5181

Name of the Head of
the Organ: Mr. P.C. Salzman

Title: Chairman

No. of Professionals:

Main Internal Organization:

Subject Areas of Concern: Range management. Grasslands. Human health
Pastoralism. Nomads.

Specific activities
being carried out: Establishment of regional groups or networks to carry
out activities and projects focusing upon West Africa,
East Africa and India on problems and current
circumstances of the nomadic and pastoral people.

New activities planned:

Publications: "Nomadic People" journal. (published several times
per year), proceedings of conferences.

Sources of Support: IDRC and McGill University.

Fixed Experimental stations
and their activities: None.

Source of Information: R

Code: B003

Name: University of Alberta, Department of Geography

Address: Edmonton, Alberta T6G 2H4
CANADA

Cable/Telex:

Telephone: 403/470 06 06

Name of the Head of
the Organ: Dr. J. McPherson

Title: Director

No. of Professionals: 5

Main Internal Organization:

Subject Areas of Concern: Drought. Arid lands. Water resources. Water
management. Geography.

Specific activities
being carried out: Drought relief in Ogaden, Ethiopia and Darfur, Sudan;
Emergency water programme in Ogaden.

New activities planned: Water recovery programme in Darfur, West Sudan.

Publications:

Sources of Support: Government, United Nations, and Non-Governmental
Organisations.

Fixed Experimental stations
and their activities: -

Source of Information: R

Code: B006

Name: Inter-commission on the Application of Science
to Agriculture, Forestry and Aquaculture

Address: c/o IDRC,
60 Queen Street,
Ottawa, K1G 3H9
CANADA

Cable/Telex:

Telephone:

Name of the Head of
the Organ: Dr. J.H. Hulse

Title: President

No. of Professionals:

Main Internal Organization:

Subject Areas of Concern: Drought.

Specific activities
being carried out:

New activities planned:

Publications:

Sources of Support:

Fixed Experimental stations
and their activities:

Source of Information: R

Code: B007

Name: Agriculture Canada Research Station

Address: Box 1030, Swift Current,
Sask. S9H 3X2
CANADA

Cable/Telex:

Telephone: (306) 773 4621

Name of the Head of
the Organ: Dr. D.M. Bowden

Title: Director

No. of Professionals: 35

Main Internal Organization: Sections of: Cereals; Forage; Soils; Analysis and
Engineering.

Subject Areas of Concern: Water management. Saline water. Agricultural
mechanization. Plant breeding. Agronomy. Forage
production. Environmental effects. Dry farming. Arid
lands management and development. Soil sciences. Crop
production. Crop response.

Specific activities
being carried out: Equipment development; Breeding and agronomy of
cereals and forages; Effects of environmental factors
and water management related to dry land production.
Cooperation with CIDA in projects in India, Pakistan
and Brazil.

New activities planned: Salinity research, prevention and restoration,
semi-dwarf cereal varieties, water management.

Publications: Annual report.

Sources of Support: Government.

Fixed Experimental stations
and their activities: Swift Current Research station.

Source of Information: R

Code: B008

Name: Agriculture Canada, Range Research Station

Address: 3015 Ord Road, Kamloops,
British Columbia V2B 8A9
CANADA

Cable/Telex:

Telephone: 604-376-5565

Name of the Head of
the Organ: Dr. J.D. McElgunn

Title: Director

No. of Professionals: 5

Main Internal Organization:

Subject Areas of Concern: Cattle. Animal production. Forage production. Range
management. Soil science. Plant physiology. Ecology.

Specific activities
being carried out: Research on beef cattle production; Forage crop
production; Range management; Soil sciences, Plant
physiology; Ecology; Poisonous plants, Soil fertility.

New activities planned: None.

Publications: Scientific papers, technical bulletins and station
reports.

Sources of Support: Federal Government.

Fixed Experimental stations
and their activities: - Prince George experimental farm: Beef cattle
production, forage crop production, soil research
and soil fertility.

Source of Information: R

Code: B101

Name: University of Arizona (The)

Address: Nugent Building 40, Room 205A,
Tucson, AZ 85721
U.S.A.

Cable/Telex: -/910 952 1202 UACI DTUC

Telephone: (602) 621 19 00

Name of the Head of the Organ: Mr. H. Koffler

Title: President

No. of Professionals:

Main Internal Organization: University departments, centres and laboratories, including those related to arid lands ie.: Arizona; Cooperative Wildlife Research Unit; Water Resources Research Centre; Office of Arid lands Studies; Laboratory of Tree-ring Research; Institute of Atmospheric Physics; Engineering Experiment Station; Department of Geography and Arizona Agricultural Experiment Station.

Subject Areas of Concern: Water management. Hydrology. Irrigation. Arid lands management and development. Desert ecology. Desert plants. Desert animals. Dry farming. Ecosystems. Range management. Foods. Rural development and planning. Social aspects. Agriculture. Forestry. Drought tolerance. Plant breeding. Plant adaptation. Training and education in agric., lands, forests, soils and water.

Specific activities being carried out: Development of water management technology; Breeding of heat and drought tolerant plants; Development of range management and arid lands farming systems.

New activities planned: Introduction of biotechnology into plant breeding strategies.

Publications: Scientific journals.

Sources of Support: Government, foundations, private industry.

Fixed Experimental stations and their activities: The College of Agriculture has 8 experimental stations: all activities focus on aspects of arid land agriculture, range and forestry management.

Source of Information: R

Code: B102

Name: USDA-ARS, Forage and Range Research Crops Research
Laboratory

Address: Utah State University, UMC 63
Logan, UT 84322
U.S.A

Cable/Telex:

Telephone: (801) 750 2249

Name of the Head of
the Organ: Mr. N.J. Chatterton

Title: Plant Physiologist - Research Leader

No. of Professionals: 11

Main Internal Organization:

Subject Areas of Concern: Grasses. Leguminosae. Rangelands. Plant Genetics.
Nitrogen fixation. Plant physiology. Drought tolerance.

Specific activities
being carried out: Collection and development of improved range plant
germplants through genetic, cytogenetic physiological,
entomological and nematological research efforts.

New activities planned: Seedling vigor, drought tolerance, nitrogen fixation
on rangelands, insect and nematode resistant studies.

Publications: Scientific journal articles, research reports.

Sources of Support: Government and Utah State Agricultural Experiment
Station

Fixed Experimental stations
and their activities: Co-operative efforts with the departments of Plant
Science and Range Science and the Agricultural
Experiment Station at Utah State University.

Source of Information: R

Code: B103

Name: The Arizona-Sonora Desert Museum

Address: Route 9, Box 900 Tucson
Arizona 85743
U.S.A

Cable/Telex:

Telephone: (602) 883-1380

Name of the Head of the Organ: Mr. D. Davis

Title: Director

No. of Professionals: 18

Main Internal Organization: Departments of Animals; Plants; Earth science and Education.

Subject Areas of Concern: Soil conservation. Desert Animals. Flora. Water conservation. Environmental education. Parks and reserves.

Specific activities being carried out: Environmental education to develop an appreciation and concern for arid lands. Co-operative programmes with other countries on advice for National parks.

New activities planned: Expanding educational techniques in both classroom and field for a better understanding of arid land problems.

Publications: "Sonorensis", quarterly , semi scientific.

Sources of Support: Admission fees, membership fees, individual, corporate and foundation donations.

Fixed Experimental stations and their activities: Use laboratory facilities of University of Arizona.

Source of Information: R

Code: B104

Name: Laboratory of Climatology,
Arizona State University

Address: Tempe, Arizona 85287
U.S.A

Cable/Telex:

Telephone: 1-602-965-6265

Name of the Head of
the Organ: Dr. A.J. Brazel

Title: Director

No. of Professionals: 4

Main Internal Organization: College of Liberal Arts.

Subject Areas of Concern: Climatology. Desertification.

Specific activities
being carried out: Climatic aspects of desert regions and desertification
problems.

New activities planned:

Publications:

Sources of Support:

Fixed Experimental stations
and their activities:

Source of Information: R

Code: B105

Name: Boyce Thompson Southwestern Arboretum

Address: P.O. Box AB, Superior,
Arizona 85273
U.S.A

Cable/Telex:

Telephone: (602) 689-2811, (602) 689 2723

Name of the Head of
the Organ: Dr. W.R. Feldman

Title: Director

No. of Professionals: 6

Main Internal Organization: Programmes of: Research; Education and Parks;
Operated co-operatively by the University of Arizona,
the Arizona State Parks Board and the Boyce Thompson
Southwestern Arboretum, Inc. (the latter is a
non-profit-making educational and scientific
institution).

Subject Areas of Concern: Plants. Horticulture. Plant studies. Plant uses, plant
physiology. Leguminosae. Desert plants.

Specific activities
being carried out: Planting desert plants; Horticultural care of desert
plants; Evaluation of desert plants; Discovery of uses
of desert plants; Display of desert plants.

New activities planned: Development of dry land plants with economic uses.

Publications: "Desert Plants" journal.

Sources of Support: Foundation trust, State of Arizona, sales of books,
subscriptions, etc.

Fixed Experimental stations
and their activities: Itself.

Source of Information: R

Code: B107

Name: Central Agricultural Research Center

Address: Moccasin, Montana 59462
U.S.A.

Cable/Telex:

Telephone: 406 423 5227

Name of the Head of
the Organ: G.D. Jackson

Title: Superintendent

No. of Professionals: 2

Main Internal Organization:

Subject Areas of Concern: Dry farming. Agriculture.

Specific activities
being carried out:

New activities planned:

Publications: "Montana Agricultural Research" (periodical).

Sources of Support: Government.

Fixed Experimental stations
and their activities:

Source of Information: R

Code: B109

Name: Chihuahuan Desert Research Institute

Address: Box 1334, Alpine Texas 79831
USA

Cable/Telex:

Telephone: (915) 837 8370

Name of the Head of
the Organ: Mr. D.J. Miller

Title: Executive Director

No. of Professionals: 5

Main Internal Organization: Board of Directors, Board of Scientists

Subject Areas of Concern: Training and education. Desert ecology. Desert plants.
Desert soils. Desert biome. Social aspects.

Specific activities
being carried out: Contract research, education, development of an
interpretive centre.

New activities planned: Publication, database.

Publications: "Chihuahuan Desert Discovery" (bi-annual),
"Chihuahuan Newsbriefs" (bi-annual), occasional
scientific papers.

Sources of Support: Private donations, trusts, foundations, investments,
Government contracts.

Fixed Experimental stations
and their activities: 3.3 miles of Fort Davis, Texas: Long and short range
ecological studies.

Source of Information: R

Code: B110

Name: Dept. of Range, Wildlife and Forestry

Address: University of Nevada, 1000 Valley Rd.,
Reno, NV 89512
U.S.A.

Cable/Telex:

Telephone: (702) 784 40 00

Name of the Head of the Organ: Dr. G.F. Gifford

Title: Head, Dept. of Range, Wildlife and Forestry

No. of Professionals: 14

Main Internal Organization:

Subject Areas of Concern: Range management. Forestry. Wood management. Wildlife management. Watershed management. Training and education. Grazing.

Specific activities being carried out: Research, teaching and extension activities in range management, forestry, wildlife and watershed management

New activities planned:

Publications: Journal papers, bulletins, symposium proceedings through the Nevada Agricultural Experimental Station.

Sources of Support: Federal agencies and the Nevada Agricultural Experimental Station.

Fixed Experimental stations and their activities: Gund Ranch: Grazing management and ranch management.

Source of Information: R

Code: B111

Name: Consortium for International Development

Address: 5151 E. Broadway Blvd., Suite 1500,
Tucson, AZ 85711-3766
U.S.A

Cable/Telex: -/910952 1102 CIDCOR TUC

Telephone: (602) 745 04 55

Name of the Head of
the Organ: Mr. J.L. Fisher

Title: Executive Director

No. of Professionals: 8

Main Internal Organization: 11 universities in the arid and sub-humid region of USA

Subject Areas of Concern: Arid lands management and development. Livestock.
Agriculture.

Specific activities
being carried out: Agriculture and Range livestock in Africa and Middle
East.

New activities planned:

Publications: "New Express" and occasional reports.

Sources of Support: Government, contracts and grants.

Fixed Experimental stations
and their activities: Through university members.

Source of Information: R

Code: B114

Name: Desert Research Institute,
University of Nevada System

Address: P.O. Box 60220, Reno,
Nevada 89506
U.S.A

Cable/Telex:

Telephone: (702) 972 16 76

Name of the Head of
the Organ: Dr. G.M. Hidy

Title: President

No. of Professionals: 150

Main Internal Organization: Atmospheric sciences; Water resources; Biology; Social
sciences and Energy systems.

Subject Areas of Concern: Water Resources. Water supply. Water management. Plant
physiology. Climate. Groundwater. Hydrology. Desert
plants. Photosynthesis. Remote sensing. Water quality.
River runoff.

Specific activities
being carried out: Ground water hydrology, snowfall augmentation,
photosynthesis of desert plants, acid deposition,
visibility degradation, desertification of lands and
desert lakes.

New activities planned: Climate change studies.

Publications: Annual reports, scientific journals, newsletters.

Sources of Support: Federal and State Governments, private sector support
principally utility companies and mining industry.

Fixed Experimental stations
and their activities: Nevada state-wide field sites for a variety of
programmes. Sites include Nevada Test Site, Sierra
Nevada Mountain stations for remote sensing of
precipitation chemistry, river runoff and water
quality.

Source of Information: R

Code: B116

Name: Dryland Research Institute
University of California Riverside

Address: Riverside, C.A 9252
USA

Telephone: (714) 787 3785

Name of the Head of
the Organ: W.M. Jarrel

Title: Director

No. of Professionals:

Main Internal Organization: Director and Advisory Board.

Subject Areas of Concern: Arid lands management and development. Conservation.
Crops. Irrigated soils. Natural resources. Ecosystems.

Specific Activities
being carried out: Assembling database of California personnel; Conducting
research in arid and semi-arid systems.

New activities planned: New crops in arid lands, study of irrigated ecosystems.

Publications: Quarterly newsletter planned.

Sources of support: University, Agricultural Experiment Stations.

Fixed Experimental stations
and their activities: Access to Univ. of California Agricultural Experiment
Stations and Land and Water Reserves, covering a broad
range of natural and agricultural ecosystems.

Source of Information: R

Code: B118

Name: International Bank for Reconstruction
and Development (IBRD/World Bank)

Address: 1818 H. Street, N.W.
Washington, D.C. 20433
U.S.A.

Cable/Telex: INTBAFRAD WASHINGTON/RCA 248423,
ITT 440098, WUI 64145

Telephone: (202) 477 12 34

Name of the Head of
the Organ: Mr. B. Conable

Title: Director

No. of Professionals:

Main Internal Organization:

Subject Areas of Concern: Migration. Rural development and planning.
Agriculture. Livestock. Droughts. Water management.
Water resources. Land reclamation. Floods. Saline
soils. Appropriate technology. Ground water and
hydrology. Training and education in agriculture. Land
water. Saline waters. Animal production. Water supply.
Arid land development. Crop production. Land use.
Seeds. Forestry.

Specific activities
being carried out: 97 projects related to arid and semi-arid lands have
been carried out since 1977 up-to-date, among others:
Integrated Rural Development in Afghanistan(1),
Algeria(1), Burundi(1), Brazil (6), Chad(1), Nepal(1),
Swaziland(1), Tanzania(3), Togo(2), Burkina Faso(3),
and Mexico(4). Agricultural Development in
Afghanistan (1), Ethiopia (4), Ghana(1), Mali(1),
Morocco(2), Nepal(1), Nigeria(2), Pakistan(1),
Senegal(2), Sudan(3), Burkina Faso(3), Yemen A.R.(2),
People's D.R. Yemen(2) Mexico(3). Livestock
development in Bolivia (2), Bostwana(1), Chad(2).,
Ethiopia(1), Ghana(1), Mali(2), Pakistan(1),
Senegal(1), Somalia(1), Tanzania(2), Burkina Faso(1),
and Yemen A.R.(1); Drought and flood control in
Bangladesh; Drought and Rehabilitation in Somalia,
Chad(1), Senegal(1), Ethiopia (1), and Niger;
Forestry in Kenya and Niger; Salinity control and land
reclamation in Pakistan.

New activities planned:

Publications:

Sources of Support:

Fixed Experimental stations
and their activities:

Source of Information: (6)

Code: B119

Name: Environmental Research Laboratory,
University of Arizona

Address: 2601 E. Airport Drive,
Tucson. AZ 85706
U.S.A

Cable/Telex: 165580 ERLAB TUC/-

Telephone: (602) 621 79 62

Name of the Head of
the Organ: Mr. C.N. Hodges

Title: Director

No. of Professionals: 35

Main Internal Organization:

Subject Areas of Concern: Energy. Water resources. Controlled environments
Aquaculture. Solar Energy. Forage production. Foods.
Saline water. Irrigation practices. Irrigated
agriculture.

Specific activities
being carried out: Research and development on vegetable greenhouse and
aquaculture production systems. Sea water irrigation
for the production of forage and food for man and
animals. Solar energy.

New activities planned: Food systems for drought stricken communities of
Africa and the application of new appropriate food
production systems in less developed countries.

Publications: Research papers.

Sources of Support:

Fixed Experimental stations
and their activities: - Tucson, AZ: HQ.
- Hawaii: Aquaculture and seawater irrigation;
- Penasco, Mexico: Aquaculture and seawater
irrigation;
- Sharjah, UAE: Seawater irrigation.

Source of Information: R

Code: B121

Name: USDA-Forest Service Intermountain

Address: Research Station Shrub Sciences Lab.,
735 N 500E,
Provo, Utah 84601
U.S.A.

Cable/Telex:

Telephone: (801) 379 55 00

Name of the Head of
the Organ: E.D. McArthur

Title: Project Leader

No. of Professionals: 11

Main Internal Organization:

Subject Areas of Concern: Plant breeding. Planting management. Shrubs. Plants.
Plant nutrition. Vegetation. Grazing. Plant adaptation.

Specific activities
being carried out: Plant selection and breeding; Nutritive quality
assessment; Planting and propagation techniques.

New activities planned:

Publications: Station publications, journal outlets.

Sources of Support: Government.

Fixed Experimental stations
and their activities: - Great Basin Experimental Range: Species
adaptation, revegetation techniques;
- Desert Experimental Range: Grazing systems.

Source of Information: R

Code: B123

Name: International Center for Arid and Semi-arid
Studies (The),
Texas Tec. University

Address: P.O. Box 4620, Lubbock,
Texas 79409
U.S.A

Cable/Telex: -/ TWX No.9108964398

Telephone: (806) 742 2218

Name of the Head of
the Organ: Dr. I.R. Traylor

Title: Director

No. of Professionals: 6

Main Internal Organization: Director; Deputy Director; Special Projects
Coordinator; Student Adviser; Special Consultants and
Information Specialist.

Subject Areas of Concern: Water resources. Rural development and planning.
Social aspects. Arid lands management and development.
Agriculture. Remote sensing.

Specific activities
being carried out: On-going research in various projects related to arid
lands, funded by various sources; work with USAID
projects in Guatemala, Senegal, Pakistan.

New activities planned: Native American Peoples Symposium, design of housing
and other dwellings, publication of bibliography of
arid lands - 2nd edition.

Publications: "ICASALS Newsletter", "AALS News", "Arid Lands and
Plant Resources Newsletter", annual report,
monographs.

Sources of Support: Title XII Stengthening Grant, Moody Foundation, State
of Texas, private donations, Shell Co. Foundation.

Fixed Experimental stations
and their activities: - Remote Sensing Unit; Water Resources Centre.

Source of Information: R

Code: B127

Name: National Resource Ecology Laboratory,
Colorado State University

Address: Ft. Collins, Colorado 80523
U.S.A.

Cable/Telex:

Telephone: 303 491 5571

Name of the Head of
the Organ: Dr. R. Woodmansee

Title: Director

No. of Professionals: 17

Main Internal Organization:

Subject Areas of Concern: Pastoralism. Nomads. Grasslands. Ecosystems.
Climatology. Biomes. Ecology. Vegetation.

Specific activities
being carried out: Long-term ecological research programmes; Central
clearing house for National Atmospheric Deposition
programme; South Turkana ecosystem project (Kenya).

New activities planned: Participation in international Geosphere and Biosphere
programme, ecosystem changes, phosphorus cycling in
Brazilian tropical forests.

Publications: In open referred literature.

Sources of Support: Government.

Fixed Experimental stations
and their activities: Central Plains Experimental Range: primary
international biome grassland research site for
long-term ecological research.

Source of Information: R

Code: B128

Name: United Nations Sudano-Sahelian Office (UNSO/UNDP)

Address: One United Nations Plaza, New York, N.Y. 10017
U.S.A.

Cable/Telex: UNDEVPRO NEWYORK/125980, 236286, 422862

Telephone: 906 50 00

Name of the Head of the Organ: Mr. B. Borna

Title: Director

No. of Professionals:

Main Internal Organization:

Subject Areas of Concern: Afforestation. Ground water. Desertification control. Soil manag.. Water conserv.. Pastures. Seeds. Fertilizers. Appropriate tech.. Forestry. Rangelands. Arid land manag. and dev.. Solar energy. Animal health. Reservoirs. Water sources. Sand dunes. Irrigation. Fisheries. Fuelwood. Pastoralism. Planting management.

Specific activities being carried out: Exploration and manag. of ground water resources and utilization of wind energy in Cape Verde; Pilot project to develop natural resources and combat desertification in Djibouti, Dissemination of improved fuel efficient stoves in Gambia; Industrial and village plantation schemes in the Gao Region of Mali; Prog. of agro-sulvo-pastoral dev. of the Niger river flood plain in Mali; Creation of a brigade for the construction or rehabilitation of 21 earth dams in Mauritania; Setting up small irrigated tracks around 36 pumping stations in Mauritania; Establ. of a greenbelt around the city of Tahona in Niger; Protection and dev. of forest resources in Cosamance Region, Senegal; Manag. and protection of underground water resources in Senegal; Dev. of new and renewable sources of energy in Senegal; Intensification of ongoing sand dune fixation activities; Creation of fuelwood plantation; Species trials for rainfed fuelwood plantations in Somalia; Restocking of the gum belt; Manag. of grazing resources in Sudan; Creation of family woodlots in the region of Koudogou; Forestry in Sapone region of Burkina Faso.

New activities planned:

Publications:

Sources of Support:

Fixed Experimental stations and their activities:

Source of Information: (6)

Code: B130

Name: New Mexico State University

Address: Las Cruces, New Mexico 88003
U.S.A

Cable/Telex:

Telephone: (505) 646-20 35

Name of the Head of
the Organ: Dr. J. Halligan

Title: President

No. of Professionals: Over 400 faculty members

Main Internal Organization: Colleges of Arts, Sciences and Agriculture.

Subject Areas of Concern: Grazing. Land management. Ecology. Range management.
Arid lands management and development. Livestock.

Specific activities
being carried out: Research on the ecology and management of arid and
semi-arid rangelands.

New activities planned:

Publications: Research reports and bulletins.

Sources of Support: State, Federal and grant funds.

Fixed Experimental stations
and their activities: Main agricultural station; Branch stations and
Range-livestock near Las Cruces and Fort Station in
New Mexico.

Source of Information: R

Code: B133

Name: Office of Arid Lands Studies,
University of Arizona

Address: 845, North Park Ave., Tucson, AZ 85719
U.S.A.

Cable/Telex: ARIDLANDS/910 95 21143

Telephone: (602) 621 1955

**Name of the Head of
the Organ:** Dr. K.E. Foster

Title: Director

No. of Professionals: 25

Main Internal Organization: Arizona Remote Sensing Centre; Bioresources Research
Facility; Arid Lands Information Centre; Desert
Agriculture.

Subject Areas of Concern: Remote sensing. Desert plants agriculture. Rural
development and planning. Desertification control.
Crop response. Information. Water harvesting. Water
conservation. Water reuse. Runoff. Landscapes.

**Specific activities
being carried out:** Plant screening; Water harvesting; Urban water
conservation; Wastewater reuse; Industrial resins from
desert plants.

New activities planned: Water hyacinth waste water treatment, urban water
conservation, research on gray water reuse, rooftop
runoff, desert landscaping, geographic information
systems, image processing.

Publications: "Arid Lands Newsletter", technical reports, monographs.

Sources of Support: Government, foundations, private industry,
international organizations.

**Fixed Experimental stations
and their activities:** - 20 acre bioresources facility site for
plant screening and laboratory analysis.

Source of Information: R

Code: B134

Name: U.N. Department of Technical
Co-operation for Development (UN/DTCD)

Address: One United Nations Plaza,
New York, N.Y. 10017
U.S.A.

Cable/Telex: UNATIONS NEW YORK/232422, 420544,
82731, 62950.

Telephone: 754 12 34

Name of the Head of
the Organ: Mr. B. Jilong

Title: Under-Secretary-General

No. of Professionals:

Main Internal Organization: Divisions of: Natural resources and energy; Policy
programming and development planning; Programme
support and development; Administration.

Subject Areas of Concern: Water resources. Water management. Ground water. Rural
development and planning. Sand control. Oases.

Specific activities
being carried out: Surface water resources in Bangladesh; Artificial
recharge studies in Mahsana and Coastal Saurashtra
areas in India; Development of water resources
management in Sierra Leone; Ground water development
in rural areas in Niger; Creation of oases along salt
caravan route in Mali.

New activities planned:

Publications:

Sources of Support:

Fixed Experimental stations
and their activities:

Source of Information: (6)

Code: B135

Name: United States Peace Corps
Office of Forestry/Natural Resources

Address: 806 Connecticut Ave.,
NWM-701, Washington, D.C. 20526
U.S.A

Cable/Telex:

Telephone: (202) 254-8400

Name of the Head of the Organ: S. Mahaffey

Title: Natural Resources Sector Specialist

No. of Professionals: 2

Main Internal Organization:

Subject Areas of Concern: Reforestation. Forests. Natural Resources. Sand dunes.
Wildlife management. Agroforestry. Range management

Specific activities being carried out: Volunteers stationed worldwide (57 countries) dealing with the above areas of concern and passing on their own knowledge and skills to host country counterparts.

New activities planned: Increasing concentration in the areas of Asia and the South Pacific as well as worldwide PL480 food for work/forestry initiative.

Publications: Training manuals on a country-specific or project-specific basis, compilations from various workshops held while volunteers are at their project sites.

Sources of Support: Government funds and grants, inter-agency agreements with other government entities, from accepting assistance/working in conjunction with private voluntary organisations.

Fixed Experimental stations and their activities: Fixed only so far as being in countries where Peace Corps operates.

Source of Information: R

Code: B136

Name: Boyd Deep Canyon Desert Research Center
University of California

Address: P.O. Box 1738, Palm Desert,
CA 92261
U.S.A.

Cable/Telex:

Telephone: (619) 341 36 55

Name of the Head of
the Organ: A. Muth

Title: Resident Director

No. of Professionals: 4

Main Internal Organization: Director; Staff biologist; Administration; Assistance
and maintenance.

Subject Areas of Concern: Ecology. Desert ecology. Desert animals. Desert
grasslands. Desert plants. Desert soils. Drought
tolerance. Fauna surveys.

Specific activities
being carried out: More than 50 projects by researchers from universities
throughout the United States.

New activities planned:

Publications: Transect surveys, species lists, books.

Sources of Support: State of California, University of California at
Riverside.

Fixed Experimental stations
and their activities: None.

Source of Information: R

Code: B137

Name: Plant Sciences Dept.,
University of Arizona

Address: Tucson, AZ 85721
U.S.A

Cable/Telex:

Telephone: (602) 621 19 77

**Name of the Head of
the Organ:** Dr. B. Brooks-Taylor

Title: Head

No. of Professionals:

Main Internal Organization:

Subject Areas of Concern: Horticulture. Plant Genetics. Crop production.
Training and education. Crop response. Drought
tolerance.

**Specific activities
being carried out:** Cytogenetics; Culture of cotton, alfalfa, wheat
barley; New crop development; Plant agriculture in
areas of limited water; Instruction and extension.

New activities planned:

Publications: Journal articles, extension bulletins.

Sources of Support: Various.

**Fixed Experimental stations
and their activities:**

Source of Information: R

Code: B138

Name: Program for International Development,
Clark Univ.,

Address: 950 Main Street, Worcester, MA 01610
U.S.A.

Cable/Telex: CENTED/951829 CENTED WOR

Telephone: (617) 793 72 01

**Name of the Head of
the Organ:** (a) Ms. B. Thomas
(b) Mr. R. Ford

Title: (a) Director, I.D. Teaching
(b) Director, I.D. Research

No. of Professionals: 12

Main Internal Organization: Teaching and Research programmes.

Subject Areas of Concern: Training and education. Rural development and
planning. Ecology. Economics. Economic development.
Environmental impact. Social aspects. Arid land
management and development.

**Specific activities
being carried out:** Resource management training programmes in the U.S.
and overseas; Environmental information systems; Local
level resource management and development planning.

New activities planned: Research programme to examine the relationships
between rural economics and ecology with reference to
devising development policy.

Publications: Large number of monographs and reports on topics
related to desertification.

Sources of Support: Contracts and grants from Government agencies,
training funds, foundation support.

**Fixed Experimental stations
and their activities:** None.

Source of Information: R

Code: B139

Name: National Audubon Society,
Research Ranch Sanctuary

Address: P.O. Box 44, Elgin,
Arizona 85611,
U.S.A.

Cable/Telex:

Telephone: (602) 455 55 22

Name of the Head of
the Organ: Dr. M.R. Stromberg

Title: Manager

No. of Professionals: 1

Main Internal Organization:

Subject Areas of Concern: Grazing. Overgrazing. Fauna surveys. Plant studies.
Vegetation. Wildlife. Grasslands.

Specific activities
being carried out: Research on natural undisturbed flora and fauna;
Comparative studies of biology in relation to adjacent
grazed ecosystems.

New activities planned: Intensive monitoring of Antilocapra americana herds;
Study of prescribed burning on vegetation, wildlife.

Publications: Reports.

Sources of Support: Whihell Trust, Government and private donors.

Fixed Experimental stations
and their activities:

Source of Information: R

Code: B141

Name: USDA-Agricultural Research Service,
Watershed Center

Address: 2000 E. Allen Rd.,
Tucson, Arizona 85719
U.S.A

Cable/Telex:

Telephone: (602) 629 63 81

Name of the Head of
the Organ: Dr. K.G. Renard and Dr. D.A. Woolhiser

Title: Research leaders

No. of Professionals: 6

Main Internal Organization:

Subject Areas of Concern: Land use. Water resources. Plant distribution.
rangelands.

Specific activities
being carried out: Simulation model development to facilitate the
transfer of technology developed on research areas, to
other less intensively instrumented areas.

New activities planned:

Publications: USDA series, technical papers through professional
journals concerned with water resources, soil
resources and range management.

Sources of Support: US Department of Agriculture.

Fixed Experimental stations
and their activities: At Santa Rita Range and Walnut Gulch, Arizona:
Watershed experiments.

Source of Information: R

Code: B146

Name: Agricultural Research Service, USDA

Address: Rm. 125, Bldg 005, BARC-West
Beltsville, MD 20705
U.S.A.

Cable/Telex:

Telephone: (301) 344 3084

Name of the Head of the Organ: Dr. T.B. Kinney, Jr.

Title: Administrator

No. of Professionals: 2590

Main Internal Organization:

Subject Areas of Concern: Natural resources. Animal production. Plant nutrition. Agricultural products. Cultivation systems. Crop production. Technology transfer. Plant breeding. Agriculture. Productivity.

Specific activities being carried out: Research; Basic and applied and technology transfer.

New activities planned: Research programmes are dynamic and are updated annually.

Publications: Most research is reported in scientific and technical professional journals, an annual report is prepared for the U.S. Congress.

Sources of Support: Government.

Fixed Experimental stations and their activities: ARS scientists are stationed at 148 locations in working groups that range in size from one to 450 scientists.

Source of Information: R

Code: B147

Name: Engineering and Research Center
Bureau of Reclamation

Address: P.O. Box 25007, Denver,
CO 80225-0007
U.S.A.

Cable/Telex:

Telephone: (303) 236 80 90

**Name of the Head of
the Organ:** D.W. Webber

Title: Assistant Commissioner

No. of Professionals: 1100

Main Internal Organization:

Subject Areas of Concern: Water resources. Irrigation programmes. Energy.
Hydrology. Fluvial process. Reservoirs. Water
engineering. Water management. Water quality. Water
utilization. Water conservation. Saline water.
Climatology.

**Specific activities
being carried out:** Hydraulic structures, design, development and
construction; Weather modification programmes; dam
safety programme.

New activities planned: Research and development to support construction
programme.

Publications: Annual reports, project reports, engineering manuals
and tables, engineering monographs, research reports.

Sources of Support: Federal appropriations, revenue generated from sale of
water and hydropower, cost sharing with states and
water districts.

**Fixed Experimental stations
and their activities:** - USER hydraulic and materials laboratory.

Source of Information: R

Code: B149

Name: U.S. Department of Agriculture - OIGD

Address: Rm 4405 - Auditors Bldg.,
Washington, D.C. 20250
U.S.A.

Cable/Telex: AGRIWASH 89491/-

Telephone: AC (202) 475 53 95

Name of the Head of the Organ: Dr. J.S. Wallace

Title: Administrator

No. of Professionals: 70

Main Internal Organization: Divisions of: Technical assistance and International Training.

Subject Areas of Concern: Rural development and planning. Training and education. Agriculture. Livestock. Soil management and conservation. Forestry. Water management. Appropriate technology. Economic development. Social aspects.

Specific activities being carried out: Approximately 1000 technical assistance activities in developing countries in 1984, and almost 2000 foreign participants enrolled in training activities.

New activities planned: Work with middle-income-level countries to develop training programmes, assist in development of a marketing workshop in Africa.

Publications: Annual summaries, training newsletters, and periodical reports.

Sources of Support: Government.

Fixed Experimental stations and their activities: None.

Source of Information: R

Code: B150

Name: Water Resources Division, U.S. Geological Survey.

Address: 470 National Center,
Reston, Virginia 22092
U.S.A

Cable/Telex: -/89-9153

Telephone: (703) 860 65 48

Name of the Head of
the Organ: Mr. P. Cohen

Title: Chief Hydrologist

No. of Professionals: 2000

Main Internal Organization: Regions: Northeastern; Southeastern; Central; Western
contact: Office of International Hydrology.

Subject Areas of Concern: Surface waters. Geochemistry. Ground water.
Geomorphology. Water chemistry. Ecology. Water
quality. Streams. Water table. Water pollution.
Aquifers. Watersheds. Training and education. Mapping
and cartography.

Specific activities
being carried out: Collection of data on a systematic basis to determine
the quality, quantity and use of surface and ground
water; Conduction of interpretive water resource
appraisals to describe the consequences of alternative
plans for developing land and water resources;
Conduction basis and problem-oriented research in
hydraulics, hydrology, and related fields; Development
of information on water-related natural hazards such
as floods, landslides, volcanoes, mudflows and land
subsidence; Co-ordination of activities of all Federal
agencies in the acquisition of water data;
Dissemination of information through reports, maps,
etc.; Provision of scientific and technical
assistance in the hydrologic field to other Federal
agencies, State, local and international agencies on
behalf of US Department of State.

New activities planned: Constantly changing in response to needs and support
provided.

Publications: US Geological Survey publications series and a variety
of journals.

Sources of Support: Federal and State Government.

Fixed Experimental stations
and their activities:

Source of Information: R

Code: B152

Name: U.S. Salinity Laboratory (USSL)

Address: 4500 Glenwood Drive, Riverside,
CA 92501
U.S.A.

Cable/Telex:

Telephone: (714) 683 01 70

Name of the Head of
the Organ: K.H. Solomon

Title: Acting Director

No. of Professionals: 16

Main Internal Organization:

Subject Areas of Concern: Soil physics. Saline waters. Saline soils. Irrigation.
Agricultural engineering. Water requirements in crops.
Water salinization. Water analysis. Plant studies.
Irrigation effects. Plant production.

Specific activities
being carried out: Agricultural engineering for control of the effects of
salts in irrigation waters, soils and plants on crop
production.

New activities planned:

Publications: Technical reports (occasional), journal articles.

Sources of Support: U.S. Government.

Fixed Experimental stations
and their activities:

Source of Information: R

Code: B153

Name: USDA-ARS. US Water Conservation Laboratory

Address: 4331, East Broadway Rd.,
Phoenix, AZ 85040
U.S.A

Cable/Telex:

Telephone: (602) 261 4356

Name of the Head of the Organ: Dr. H. Bouwer

Title: Laboratory Director

No. of Professionals: 20

Main Internal Organization:

Subject Areas of Concern: Water resources. Water utilization. Irrigation systems. Remote sensing. Ground water. Water reuse. Water requirements in crops. Sewage treatment.

Specific activities being carried out: Effect of agriculture on groundwater; Use of sewage effluents for irrigation; Effects of increasing carbon dioxide levels in the atmosphere on yield and water requirements of crops.

New activities planned:

Publications: Reports published in professional and popular journals.

Sources of Support: Government.

Fixed Experimental stations and their activities: - Maricopa Agricultural Center;
- Yuma Experiment Station in Co-operation with University of Arizona.

Source of Information: R

Code: B155

Name: Volunteers in Technical Assistance

Address: 1815 North Lynn Str., Suite 200,
Arlington, VA 22209
U.S.A

Cable/Telex: VITAINC/440192 VITAVI

Telephone: (703) 276 1800

Name of the Head of
the Organ: Mr. H. Norman

Title: Executive Director

No. of Professionals: 26

Main Internal Organization:

Subject Areas of Concern: Energy. Agriculture. Water utilization. Water
conservation. Water supply. Health.

Specific activities
being carried out: Technical assistance.

New activities planned:

Publications:

Sources of Support: Government, foundations, international organizations.
individual contributions.

Fixed Experimental stations
and their activities: None.

Source of Information: R

Code: B158

Name: Africare

Address: 1601 Connecticut Ave., NW
Washington, D.C. 20009
U.S.A.

Cable/Telex: -/65239

Telephone: (202) 462 3614

Name of the Head of the Organ: C.P. Lucas

Title: Executive Director

No. of Professionals: 50

Main Internal Organization:

Subject Areas of Concern: Rural development and planning. Agriculture. Water resources. Water allocation. Water management. Water storage. Water supply. Human health. Migrations. Settlements. Social aspects. Drought. Natural resources. Forestry. Food supply. Food conservation. Fuelwood. Agriculture. Livestock.

Specific activities being carried out: More than 100 small and large rural development projects in 18 African countries.

New activities planned: Expansion of ongoing activities.

Publications: Annual report, periodicals, newsletter.

Sources of Support: Private sources of support include church organizations, foundations, corporations, individual members and USAID.

Fixed Experimental stations and their activities: None.

Source of Information: R

Code: B159

Name: Winrock International Livestock Research and
Training Center

Address: Route 3, Morrilton, AR 72110
U.S.A.

Cable/Telex: 310-720-6616

Telephone: (501) 727 54 35

**Name of the Head of
the Organ:** N.S. Raun

Title: Acting President

No. of Professionals: 44

Main Internal Organization:

Subject Areas of Concern: Livestock. Animal production. Training and education.
Agricultural production. Agroforestry

**Specific activities
being carried out:** Providing technical assistance to US and overseas
institutions for their agricultural research training,
production and development programmes.

New activities planned: Agroforestry.

Publications: Books, proceedings, bulletins, reports, technical
notes, leaflets, newsletters, annual reports, journal
articles.

Sources of Support: USAID, USDA, FAO, Winthrop Rockefeller Foundation.

**Fixed Experimental stations
and their activities:**

Source of Information: R

Code: B160

Name: Institute for Dryland Development,
University of Oklahoma

Address: 455 W. Lindsey, Suite 804
Norman, OK 73019
U.S.A.

Cable/Telex:

Telephone: (405) 325 65 42 or 52 35

Name of the Head of
the Organ: H.J. Spaeth

Title: Director

No. of Professionals: 40

Main Internal Organization:

Subject Areas of Concern: Rural development and planning. Agriculture. Ecology.
Human factor studies. Natural resources. Arid land
development.

Specific activities
being carried out: Feasibility studies, project evaluation, basic and
applied research, teaching and exchange programmes on
natural and human resources assessment and management
in global drylands.

New activities planned:

Publications: Newsletter, monographs.

Sources of Support: Government, foundation and endowment fund grants..

Fixed Experimental stations
and their activities:

Source of Information: R

Code: B161

Name: Desert Tortoise Council (The)

Address: 5319 Cerritos Ave.,
Long Beach, CA 90805
U.S.A.

Cable/Telex:

Telephone: (213) 422 61 72

Name of the Head of
the Organ: Mr. D. Pearson

Title: Co-Chairperson

No. of Professionals:

Main Internal Organization:

Subject Areas of Concern: Deserts. Desert biome. Ecology. Ecosystems.

Specific activities
being carried out: To assure the continued survival of viable populations
of the desert tortoise, Gopherus agassizi, throughout
its existing range.

New activities planned:

Publications: Proceedings of symposia.

Sources of Support:

Fixed Experimental stations
and their activities:

Source of Information: R

Code: B163

Name: Jornada Long Term Ecological Research Unit,
Dept. of Biology, N.M.S.U.

Address: Box 3AF, N.M.S.U
Las Cruces, NM 88003
U.S.A.

Cable/Telex:

Telephone: (505) 646 3921

Name of the Head of
the Organ: W.G. Whitford

Title: Professor

No. of Professionals: 12

Main Internal Organization: Research Unit

Subject Areas of Concern: Ecosystems. Desert ecology. Vegetation. Nitrogen
fixation. Climatology. Climate-vegetal relationships.
Animal populations.

Specific activities
being carried out: Studies of primary production; Decomposition; Nitrogen
cycling; Herbivore populations; Climatic variables;
Rhizosphere processes.

New activities planned:

Publications: Scientific reports, monographs.

Sources of Support: U.S. National Science Foundation.

Fixed Experimental stations
and their activities:

Source of Information: R

Code: B165

Name: Dept. of Animal and Range Science,
New Mexico State University

Address: Box 3-I, Las Cruces,
New Mexico 88003
U.S.A

Cable/Telex:

Telephone: (505) 646 25 15

**Name of the Head of
the Organ:** A.B. Nelson

Title: Department Head

No. of Professionals: 37

Main Internal Organization:

Subject Areas of Concern: Grasslands. Livestock. Grazing. Hydrology. Rangeland.
Soil-water movement. Soil erosion. Shrubs. Grasses.
Vegetation.

**Specific activities
being carried out:** Research on brush management, hydrologic processes and
erosion on rangeland; Evaluation of long-term
enclosures to determine grazing impact.

New activities planned: Research on the role of defoliation in vegetation
changes on desert rangelands.

Publications:

Sources of Support: Government.

**Fixed Experimental stations
and their activities:** - College Ranch (64000 acres);
- Ft Stanton Experiment Ranch (26000 acres).

Source of Information: R

Code: B171

Name: Dept of Range and Wildlife Management,
Texas Tech. University

Address: Lubbock, Texas 79409
U.S.A.

Cable/Telex:

Telephone: (806) 742 28 41

**Name of the Head of
the Organ:** Dr. A.A. Wright

Title: Chairperson

No. of Professionals: 14

Main Internal Organization:

Subject Areas of Concern: Overgrazing. Sand dunes. Vegetation. Sands.
Desertification control.

**Specific activities
being carried out:** Research in wind tunnel surface roughness and other
tests on differentially used deep sand type soils in
western Texas.

New activities planned: Research canopy reflectance and develop models of this
ecosystem if funds are available.

Publications: In-progress.

Sources of Support: USDA Special project on anti-desertification.

**Fixed Experimental stations
and their activities:** None.

Source of Information: R

Code: B178

Name: USDA Conservation and Production
Research Laboratory.

Address: P.O. Drawer 10, Bushland,
Texas 79012
U.S.A.

Cable/Telex:

Telephone: (806) 37 85 57 24

**Name of the Head of
the Organ:** Dr. B.A. Stewart

Title: Laboratory Director

No. of Professionals: 16

Main Internal Organization: Three research units.

Subject Areas of Concern: Soil management. Water management. Irrigation. Crop
production. Dry farming. Tillage. Wind power.

**Specific activities
being carried out:** Research on irrigation, dryland, tillage;
Conservation tillage, wind powered irrigation,
sun-flower, grain, sorghum, wheat.

New activities planned:

Publications: Research results in scientific journals, bulletins,
proceedings.

Sources of Support: US Department of Agriculture.

**Fixed Experimental stations
and their activities:** Itself.

Source of Information: R

Code: B181

Name: Institute for Rehabilitation of Drastically
Disturbed Lands - Utah State University

Address: Range Science Dept.,
Utah State University,
Logan, UT 84322
U.S.A.

Cable/Telex:

Telephone: (801) 750 24 77

Name of the Head of
the Organ: Dr. E. Allen

Title: Co- Director

No. of Professionals: 25 Collaborators

Main Internal Organization: Collaborators drawn from regular academic departments.

Subject Areas of Concern: Vegetation. Arid lands. Environmental effects. Soil
degradation. Land reclamation. Land degradation. Soil
amendment.

Specific activities
being carried out: Several rehabilitation projects on coal strip mines in
the Intermountain West.

New activities planned:

Publications: None.

Sources of Support: Government and industry.

Fixed Experimental stations
and their activities: None.

Source of Information: R

Code: C100

Name: HYDRO M.

Address: 39, rue Croix-Bargnon
31000 Toulouse
FRANCE

Cable/Telex: -/ ITAMP S30 955 FC 01

Telephone: (61) 86 81 88

Name of the Head of the Organ: Dr. M. Mustin

Title: Directeur

No. of Professionals: 4

Main Internal Organization: Société Coopérative.

Subject Areas of Concern: Water. Environment. Rural development and planning.
Aquaculture. Water quality.

Specific activities being carried out: Rural development and agriculture; Water treatment in France, Morocco, Congo and Tunisia.

New activities planned:

Publications: "Energie et Environnement".

Sources of Support: Government, international organizations.

Fixed Experimental stations and their activities: Le Teoula experimental station.

Source of Information: R

Code: C102

Name: Centre d'Etudes de Géographie Tropicale (CNRS)

Address: Domaine Universitaire 33405, Talence Cedex
FRANCE

Cable/Telex:

Telephone: 80 60 00

Name of the Head of the Organ: P. Usselmann

Title: Directeur de Recherche CNRS

No. of Professionals: 45

Main Internal Organization:

Subject Areas of Concern: Rural development and planning. Urban planning. Geography. Settlements. Landscapes. Social aspects. Mapping and cartography. Food supply. Human health.

Specific activities being carried out: Evolution of landscapes; Medical geography in Burkina-Faso; Preparation of a schistosomiasis World Atlas; Geopolitical studies of the Caribbean region; Preparation of an Atlas of Haiti; Research in urban-perimeters in West-Africa; Urban growth courses and food strategies in Latin America and West Africa.

New activities planned:

Publications: "Travaux et Documents du CEGET" series (52 issues up-to-date).

Sources of Support: Government.

Fixed Experimental stations and their activities:

Source of Information: R

Code: C105

Name: Centre d'Etude et d'Experimentation du
Machinisme Agricole Tropical (CEEMAT)

Address: Parc de Tourvoie
92160 Antony
FRANCE

Cable/Telex: -/201-296F

Telephone: (1) 668 61 02

Name of the Head of
the Organ: Bernard Cheze

Title: Ingenieur du Génie Rural

No. of Professionals: 20

Main Internal Organization:

Subject Areas of Concern: Animal work. Agricultural mechanization. Food
conservation. Energy (renewable). Soil amendment.
Rural development and planning.

Specific activities
being carried out: Experimenting in soil amendments in Burkina-Faso and
Northeastern Brazil.

New activities planned: Design and construction of simple equipment used in
animal traction and motorization in rural areas.

Publications: Machinisme Agricole Tropical (quarterly), newsletter.

Sources of Support: Government, contracts, agreements.

Fixed Experimental stations
and their activities: - CPATSA at Petrolicia (Northeastern Brazil).
Preparation of equipment for animal traction to
be used in agricultural work.

Source of Information: R

Code: C108

Name: CNRS Laboratoire d'Information et de
Documentation en Géographie - INTERGEO

Address: 191, rue Saint-Jacques
75005 Paris
FRANCE

Cable/Telex:

Telephone: (633) 74 31, 329 79 93

Name of the Head of
the Organ: P.A. Pirazzoli

Title: Chargé de Recherche au CNRS

No. of Professionals: 4

Main Internal Organization:

Subject Areas of Concern: Geography. Desertification. Mapping and Cartography.

Specific activities
being carried out: Bibliographic data base on geographical information
including reports, congress proceedings and maps.

New activities planned:

Publications: "Bibliographic Geographique Internationale,
"Intergeo-bulletin", "Lettre d' Intergeo",
French geographic reports.

Sources of Support: Government.

Fixed Experimental stations
and their activities:

Source of Information: R

Code: C109

Name: Ecothèque Méditerranéenne Centre
L'Emberger/CNRS

Address: CNRS B.P. 5051
34033 Montpellier Cedex
FRANCE

Cable/Telex: -/Telex 490888 F93

Telephone: (67) 63 91 30

Name of the Head of
the Organ: Dr. G. Long

Title: Sous-Directeur

No. of Professionals: 4

Main Internal Organization: Scientific section of Centre L'Emberger

Subject Areas of Concern: Ecology. Economic development. Rural development and
planning. Arid land management and development.

Specific activities
being carried out: Co-operation in a REMDENE project in Egypt with the
University of Alexandria. Programme for the arid
zones of Chile.

New activities planned: Discussion to establish a co-operation programme
concerning the arid zones of Baja California in Mexico.

Publications: Annual activity report.

Sources of Support: French Government. UNESCO. National institutes from
Egypt and Chile.

Fixed Experimental stations
and their activities: - El Omayad in Egypt (in co-operation with the
University of Alexandria);
- Las Cardas in Chile (in co-operation with Centro
de las Zonas Aridas de Serena, Chile).

Source of Information: R

Code: C110

Name: Centre Technique Forestier Tropical

Address: 45 Bis, Avenue de la Belle Gabrielle
94130 Nogent sur Marne
FRANCE

Cable/Telex: -/CETEFO 211085 F

Telephone: (1) 873 32 95

Name of the Head of the Organ: F. Cailliez

Title: Directeur

No. of Professionals: 85

Main Internal Organization: Direction des Recherches Forestières et Piscicoles;
Direction de Recherche sur le Bois; Secretariat
General; Direction du Bureau des Etudes Techniques.

Subject Areas of Concern: Training and education. Environment. Arid lands
management and development. Land evaluation. Natural
resources. Forestry. Reafforestation. Fisheries.
Water resources. Agriculture. Nature protection.

Specific activities being carried out: Study of environment and productivity of primary
natural formation in drylands. Study of the
reafforestation possibilities in drylands. Assessment
and mobilization of resources. Protection of the
natural balance.

New activities planned: Integration of trees in hydro-agricultural development
plans.

Publications: "Bois et Forêts des tropiques" (quarterly);
"Cahiers Scientifiques" (irregular); technical
reports, practical manuals, pamphlets.

Sources of Support: Government and international organizations, (FAC,
CCLE, World Bank, AFME, FAO).

Fixed Experimental stations and their activities: Guyana, New Caledonia, Brazil, Cameroon, Congo, Ivory
Coast, Burkina-Faso, Madagascar, Niger, Senegal.

Source of Information: R

Code: C114

Name: United Nations Educational, Scientific and Cultural Organisation (UNESCO)

Address: 7, Place de Fontenoy, 750007 Paris, FRANCE

Cable/Telex: UNESCO PARIS/270602, 204461

Telephone: 568 10 00

Name of the Head of the Organ: Mr. A.M. M'Bow

Title: Director General

No. of Professionals:

Main Internal Organ.: Sectors of: Education; Science; Social and human sciences; Culture; Communications; Co-operation for development and external relations; General administration and Programme support.

Subject Areas of Concern: Ecosystems. Desert ecology. grazing. Desertification control. Overgrazing. Rangelands. Animal ecology. Wind erosion. Sand dunes. Sand control. Pastoralism. Savannas. Livestock. Wildlife. Cattle. Appropriate technology. Land use. Settlements. Arid land development. Hydrology. Saline waters. Sediments. Water balance. Drought. Training and education in waters and lands. Land conservation. Pastures.

Specific activities being carried out: Ongoing pilot projects of the MAB (Man and Biosphere) network: Regional environmental manag. of desert ecosystems in North of Egypt; Studies of grazing land ecosystems in Chile; Studies on desertification control in the Tenri desert in China; Integrated project on arid lands in Tunisia and Kenya; Studies on structure, dynamics, productivity and regeneration of desert-ecosystems in USSR; Grazing and burning effects on the productivity of the Savanna ecosystem in Nigeria; Ecological research in the Mapini and la Michilia Biosphere reserves in Mexico; Integrated ecological studies of human settlements in arid zones in Egypt and Pakistan; Biosphere reserves in arid zones (226 sites in 62 countries including 30 sites in arid and semi-arid zones); World heritage sites in arid zones; Technical information on arid land ecology; Training of specialists in arid zone ecology (several courses and seminars); Dev. of infrastructures for arid zones ecology and combating desertification; Assistance to develop national strategies to combat desertification in Benin, Djibouti, Guinea-Bissau and Burkina-Faso; Dev. and manag. of water resources. Regional co-operation in water resources; Technical publications on water resources in arid zones; Training programmes for arid zones hydrologists.

New activities planned:

Publications: "MAB Technical Notes" series, technical reports, "Natural Resources Research" series, maps, and technical publications on water resources in arid zones.

Sources of Support:

Fixed Experimental stations and their activities:

Source of Information: (6)

Code: C115

Name: Centre de Coopération Internationale en Recherche Agronomique pour le Développement (CIRAD)

Address: 42, rue Scheffer
75116 Paris
FRANCE

Cable/Telex: -/620871 F

Telephone: (1) 704 3215

Name of the Head of the Organ: H. Bichat

Title: Directeur Général

No. of Professionals: 1500 (800 researchers)

Main Internal Organization:

Subject Areas of Concern: Rural development and planning. Agriculture. Agronomy. Plant physiology. Social aspects. Economic development. Forestry. Agricultural mechanization. Training and education. Agroforestry. Land management. Water resources. Pastoralism. Animal production. Remote sensing. Drought tolerance.

Specific activities being carried out: Establishment of a research network on drought resistance. Animal breeding. Teaching and training foreign research workers in CIRAD centre at Montpellier.

New activities planned:

Publications: "Agritrop".

Sources of Support: Government (50%) and contracts (50%).

Fixed Experimental stations and their activities:

- Montpellier: All disciplines;
- Nogent sur Marne: Forestry;
- Maisons Alfort: Veterinary medicine.

Source of Information: R

Code: C117

Name: Institut d'Elevage et de Médecine Vétérinaire
des Pays Tropicaux (IEMVT)

Address: 10, rue Pierre Curie,
94704 Maison-Alfort Cedex
FRANCE

Cable/Telex:

Telephone: 36 88 73

Name of the Head of
the Organ: A. Provost

Title: Directeur

No. of Professionals:

Main Internal Organization:

Subject Areas of Concern: Pastoralism. Livestock. Animal diseases. Remote
sensing. Animal health. Animal production. Grazing.

Specific activities
being carried out: Pathology studies; Camels and small ruminants;
Agropastoralism in Senegal, Mauritania and Mali with
the use of remote sensing.

New activities planned: Agropastoralism in Chad and Niger.

Publications: Annual reports, studies of the IEMVT, technical
reports.

Sources of Support: Government, international and private organizations.

Fixed Experimental stations
and their activities: - Centre IEMVT GTZ of research on
animal trypanosomiasis in Bobo-Dioulasso,
Burkina Faso.
- Missions IEMVT in New Caledonia and
Guadalupe.

Source of Information: R

Code: C119

Name: Institut Géographique National

Address: 136 bis, rue de Grenelle
75700 Paris,
FRANCE

Cable/Telex: IGN GNL 204 989F/-

Telephone: (1) 550 34 95

Name of the Head of
the Organ: J.A. Winghart

Title: Directeur Général

No. of Professionals: 400

Main Internal Organization:

Subject Areas of Concern: Mapping and cartography. Remote sensing. Land use.
Geography. Agriculture. Agricultural production.
Floods. Soil erosion.

Specific activities
being carried out: Land use maps of temperate and tropical zones
(Thailand, Malaysia, Africa); Monitoring of the Niger
river floods in Mali. Monitoring desertification
process in Senegal.

New activities planned: Land use and agricultural activities analysis to
forecast agricultural production (France and West
Africa). Soil erosion in agricultural lands.

Publications: "Bulletin de l'IGN", "Revue Française de
Photogrammétrie et de Teledetection".

Sources of Support:

Fixed Experimental stations
and their activities:

Source of Information: R

Code: C120

Name: Association pour Combattre la Malnutrition par
Agriculture (ACMA), Laboratoire de la Roquette

Address: 34190 St. Bauzille de Putois
FRANCE

Cable/Telex:

Telephone: (67) 737060

Name of the Head of
the Organ: Dr. R.D. Fox

Title: Director

No. of Professionals:

Main Internal Organization:

Subject Areas of Concern: Appropriate technology. Solar energy. Algae. Health.
Biogas technology.

Specific activities
being carried out: Experiments on integrated villages, health and energy
systems in India, Togo and Senegal; Recycling of
village wastes to produce food, methane gas, compost.

New activities planned: Development of integrated systems in villages in other
countries.

Publications: Books, newsletters, articles.

Sources of Support: EEC, AFME, membership subscriptions.

Fixed Experimental stations
and their activities: Laboratoire de la Roquette: Research in algaculture
and appropriate technology.

Source of Information: R

Code: C123

Name: Institut Français de Recherche Scientifique pour
le Développement en Coopération (ORSTOM) -
Laboratoire D'Hydrologie

Address: 70-74, route d'Aulnay,
F-93140 Bondy
FRANCE

Cable/Telex: -/SSCBY 215 203F

Telephone: (1) 847 31 95

Name of the Head of
the Organ: Mr. B. Pouyaud

Title: Ingénieur Hydraulicien

No. of Professionals: 50

Main Internal Organization:

Subject Areas of Concern: Droughts. Natural resources. Hydrology. Climate. Water
resources.

Specific activities
being carried out: Drought studies in the Sahel and Northeast Brazil.
Management of natural resources in inter-tropical
zones. Hydrometric database. Hydrological monitoring
networks.

New activities planned: Climatic studies. Water resources studies

Publications: "Hydrologie" series, reports and documents, theses,
monographs on hydrology.

Sources of Support: Government.

Fixed Experimental stations
and their activities:

Source of Information: R

Code: C128

Name: Association Française des Volontaires de Progrès

Address: B.P.2, 91310 Montlhery
FRANCE

Cable/Telex:

Telephone: 901 10 95

Name of the Head of
the Organ: Mr. B. Dumont

Title: Délégué Général

No. of Professionals:

Main Internal Organization:

Subject Areas of Concern: Rural Development and Planning. Reafforestation.
Hydrology. Appropriate technology. Relief activities.

Specific activities
being carried out: Integral development projects in third world countries
such as Burkina Faso, Mali, Benin, Togo, the Sahelian
zone of Senegal; Small water projects.

New activities planned: Re-afforestation. Energy. Relief operations.

Publications:

Sources of Support: Government, donations and contributions from various
European NGOs.

Fixed Experimental stations
and their activities:

Source of Information: R

Code: C132

Name: Bureau pour le Développement et la Production Agricole

Address: 27, rue Louis Vicat,
75738 Paris Cedex 15
FRANCE

Cable/Telex: BUDEPRA 250620 F/-

Telephone:

Name of the Head of the Organ: Mr. A. Fos

Title: President Directeur Général

No. of Professionals: 180

Main Internal Organization:

Subject Areas of Concern: Rural development and planning. Agriculture. Crop production. Leguminosae.

Specific activities being carried out: Studies on rural development crop production including consultancy activities in the Sahelian countries. Fruit and vegetable marketing.

New activities planned:

Publications: Various articles, reports, references.

Sources of Support: International, national and private support.

Fixed Experimental stations and their activities:

Source of Information: R

Code: C136

Name: Laboratoire de Géographie Physique Zonale
Université de Reims

Address: 57, rue Pierre Taittinger,
5 1100 Reims,
FRANCE

Cable/Telex:

Telephone: 26 0823 23

Name of the Head of
the Organ: Mme. M. Mainguet

Title: Professeur d'Université

No. of Professionals: Three

Main Internal Organization:

Subject Areas of Concern: Wind erosion. Remote sensing. Mapping and cartography.
Desertification.

Specific activities
being carried out: Diachronic analysis of the physical mechanism of
desertification with satellite images and aerial
photography in the semi-arid Sahelian region.

New activities planned: Increase of the research on wind dynamics and its
degradation effects in various arid and semi-arid
ecosystems of Africa, Asia and Latin America.

Publication: Special issues on desertification in the "Travaux de
l'Institut de Géographie de Reims".

Sources of support: Government and international organizations, especially
the United Nations.

Fixed Experimental station
and their activities: None.

Source of Information: R

Code: C139

Name: Centre d'Etudes et Réalisations
Cartographiques Géographiques

Address: 191, rue Saint-Jacques,
755005 Paris,
FRANCE

Cable/Telex:

Telephone: 329 01 47

Name of the Head of
the Organ: F. Joly

Title: Directeur

No. of Professionals: 11

Main Internal Organization:

Subject Areas of Concern: Remote sensing. Mapping and cartography. Vegetation.
Pastoralism. Arid lands. Desertification.

Specific activities
being carried out: Research on the identification of signs in
desertification processes by remote sensing and
preparation of maps including those signs; Assessment
of the pastoral development in the Sahara region.

New activities planned: Preparation of a 1:1,000,000 map of the Sahelian
region and annual map (1:5,000,000) of biomass
(vegetation) after rainy seasons (field and remote
sensing).

Publications: Technical reports.

Sources of Support: CNRS (France), CNES (France), Government and Centre
Scientifique IBM (France).

Fixed Experimental stations
and their activities: - Centre Algérien de recherches sur
la zone aride (Algeria);
- Institut du Sahel, (Mali);
- AGRHYMET (Niger).

Source of Information: R

Code: C143

Name: Laboratoire de Cryptogamie

Address: 12, rue Buffon,
75005 Paris
FRANCE

Cable/Telex:

Telephone: 331 35 21

Name of the Head of
the Organ: Dr. J. Mauchacca

Title: Chercheur impliqué

No. of Professionals:

Main Internal Organization:

Subject Areas of Concern: Parasites. Soil microbiology. Systematics. Fungi.
Saline soils.

Specific activities
being carried out: Impact assessment of agriculture in arid and semi-arid
zones and soil salinisation effects on fungal
populations.

New activities planned: Studies on levels of salinisation contents in the
soil, sterilization and means to prevent salinisation.

Publications: Several publications including doctoral theses.

Sources of Support: Government and international co-operation agencies.

Fixed Experimental stations
and their activities:

Source of Information: R

Code: C144

Name: Centre de Géographie Appliquée

Address: 3, rue l'Agonne,
67083 Strasbourg Cedex
FRANCE

Cable/Telex: ULP 870260F/-

Telephone: (16-88) 35 43 00

Name of the Head of
the Organ: Professeur J. Tricart

Title: Directeur de Laboratoire

No. of Professionals: Seven

Main Internal Organization:

Subject Areas of Concern: Natural resources. Water management. Soil management.
Drought. Lakes. Hydrology. Water resources. Land
resources. Geography.

Specific activities
being carried out: Integrated study of the natural resources in the State
of Nuevo Leon, Mexico; Study on the drought effects in
the Mopti-Timbuctu Region of Mali; Research on
evolution and possibilities of development in the old
lakes of the central region of Mexico; Activities on
development of Llanos de Apure (Venezuela).

New activities planned: Participation in hydrological programmes such as
"Hydrology of Great Plains", surveys on water and land
resources for development along the Paraguay-Argentina
border.

Publications: "Revue de Géomorphologie Dynamique," "Recherches
Géographiques à Strasbourg" and other irregular
publications

Sources of Support: University, CNRS and contracts.

Fixed Experimental stations
and their activities:

Source of Information: R

Code: C145

Name: Centre National du Machinisme Agricole, du Génie Rural des Eaux et des Forêts (CEMAGREF)

Address: Parc de Tourvoile - 92160 Antony
FRANCE

Cable/Telex: -/204565

Telephone: 666 21 09

Name of the Head of the Organ: J. Barlet

Title: Directeur Général

No. of Professionals: 300

Main Internal Organization:

Subject Areas of Concern: Water resources. Hydrology. Biology. Erosion control. Natural resources. Nature protection. Rural dev. and planning. Land conservation. Runoff. Stream flow. Soil conservation. Agriculture. Dry farming. Lakes. Land reclamation. Mountains.

Specific activities being carried out: Effects of soil erosion, soil pollution and water runoff; Management of streams; Reinforcement of slopes; Improvement of degraded lands; Integrate dev. of lakes for soil conservation; Activities on research and development of Mediterranean drylands.

New activities planned: Multidisciplinary approach to problems related to soil and water management of small lakes, dry zones and mountains.

Publications: "Bulletin d'information" (monthly), "Etudes du CEMAGREF" (monthly), "Informations Techniques" (quarterly).

Sources of Support: Government (80%) and local and private agencies (20%).

Fixed Experimental stations and their activities:

- Grenoble: Soil protection, Rural development studies in mountains;
- Montpellier: Agricultural development in drylands;
- Antony: Integrate development of lakes and slopes, erosion combat.

Source of Information: R

Code: C150

Name: LCHF - Géohydraulique

Address: Laboratoire Central d'Hydraulique de France
10, rue Eugène Renault
94704 Maisons-Alfort Cedex
FRANCE

Cable/Telex: L A BHYDRO MAISONS-ALFORT/L.C.H.F. 240 985F

Telephone: (1) 893 28.28

Name of the Head of the Organ: Dr. P. Prudhomme

Title: Directeur

No. of Professionals: 47

Main Internal Organization:

Subject Areas of Concern: Erosion. Erosion control. Water management. Sediments.

Specific activities being carried out: Hydraulic programmes in Benin, Mali, Mauritania, and Senegal; Studies of erosion causes along the coast and methods of prevention in Togo and Benin.

New activities planned: Participation in planning and implementation of French programmes on water control and "hydraulic villages" to be adapted to less developed countries.

Publications: OTH informations.

Sources of Support: Study contracts with Governments, private investors, companies, UN, IBRD, FED, CCCE, FAC.

Fixed Experimental stations and their activities: Hydraulic Laboratory: studies on reduced physical models for hydraulic sedimentology.

Source of Information: R

Code: C151

Name: Groupe de Recherche et Réalisation pour le
Développement Rural (GRDR)

Address: 60 rue du Joubourg Poissonnière
75010 Paris, FRANCE

Cable/Telex:

Telephone: (1) 824 40 09

**Name of the Head of
the Organ:** P. Schrump

Title: Président de l'Association

No. of Professionals: 10

Main Internal Organization:

Subject Areas of Concern: Animal work and traction. Training and education in
agriculture, animals and water. Appropriate
technology. Rural development and planning. Water
sources. Wind power. Migration. Social aspects.

**Specific activities
being carried out:** Short and long training courses for workers from
Senegal, Mali and Mauritania; Research and development
of appropriate technology.

New activities planned: Establishment of a research station in the Senegal
River Valley and appropriate technology assistance to
villagers.

Publications: Internal bulletin.

Sources of Support: Government, foundations, private grants, EEC, Social
Action Funds.

**Fixed Experimental stations
and their activities:** Ecoubly Training Centre: Animal traction, water pump
production, agriculture, wells, hand pumps, wind pumps.

Source of Information: R

Code: C154

Name: Institut National Agronomique Paris-Grignon (INAPG)
Laboratoire de Zoologie

Address: 16, rue Claude Bernard,
75231 Paris Cedex
FRANCE

Cable/Telex:

Telephone: 16(1) 331 49 65

Name of the Head of
the Organ: Prof. G. Strebler

Title: Directeur

No. of Professionals: Five

Main Internal Organization: Laboratory of research INA, INRA and CNRS.

Subject Areas of Concern: Insects. Plant studies. Forestry. Pest management and
control. Vegetation.

Specific activities
being carried out: Studies on the effects of vegetative substances on
forest insects (food digestion); Studies on the
effects of vegetative substances on crop land insects.

New activities planned:

Publications: Technical reports (10 to 20 per year), theses (five
per year).

Sources of Support: Government (INA-INRA-CNRS), phytopharmaceutical
industry.

Fixed Experimental stations
and their activities: - INAPG Centre Laboratory, Paris;
- INAPG Centre Laboratory, Grignon.

Source of Information: R

Code: C156

Name: Institut Technique de l'Elevage Ovin et
Caprin

Address: 149, rue de Bercy,
75595 Paris Cedex 12
FRANCE

Cable/Telex:

Telephone: 346 12 20

Name of the Head of
the Organ: A. Besselievre

Title: Directeur

No. of Professionals: 40

Main Internal Organization:

Subject Areas of Concern: Sheep. Grazing. Pastoralism. Animal production.
Livestock.

Specific activities
being carried out: Development and research on sheep and goats.

New activities planned:

Publications: "PATRE", "La Chevre", "Bulletin Technique de l'Elevage
Ovin".

Sources of Support: Government.

Fixed Experimental stations
and their activities:

Source of Information: R

Code: C157

Name: PROSEMOC

Address: 57 bis, Boulevard Béranger
37000 Tours
FRANCE

Cable/Telex: -/750647F

Telephone: (47) 37 68 50, 37 68 51

Name of the Head of
the Organ: L. de Boeuer

Title: Ingenieur

No. of Professionals: Five

Main Internal Organization:

Subject Areas of Concern: Livestock. Cattle. Animal production. Sheep. Animal
husbandry. Training and education.

Specific activities
being carried out: Establishment of breeding units; Technical assistance;
Training and livestock distribution.

New activities planned:

Publications: Two periodicals.

Sources of Support: Government, international organisations.

Fixed Experimental stations
and their activities: In co-operation with Institut des Zones Arides and
Institut de Médecine Vétérinaire Tropicale in France.

Source of Information: R

Code: C158

Name: SATEC Développement (Société Technique pour la
Coopération et le Développement)

Address: 110, rue de l'Université,
75007 Paris
FRANCE

Cable/Telex: SATEC DEV PARIS/200339F

Telephone: (1) 550 32 10

Name of the Head of
the Organ: M.A. Dupuis

Title: Directeur

No. of Professionals: 120

Main Internal Organization: Société anonyme.

Subject Areas of Concern: Rural development and planning

Specific activities
being carried out: Studies, technical assistance on rural development to
less developed countries.

New activities planned:

Publications:

Sources of Support: Government, international organisations and private
sources.

Fixed Experimental stations
and their activities:

Source of Information: R

Code: C159

Name: Société d'Etudes et de Conseil pour
l'Amenagement Rural, l'Inventaire et la Gestion
des Ressources.

Address: 27, rue Louis Vicat,
75738 Paris Cedex 15
FRANCE

Cable/Telex: -/SCETAGR 204324 F

Telephone: (1) 638 34 76

Name of the Head of
the Organ: Mr. A. Fos

Title: Président Directeur Général

No. of Professionals: 130

Main Internal Organization:

Subject Areas of Concern: Rural development and planning. Agriculture.
Agricultural products. Natural resources. Cultivation
systems.

Specific activities
being carried out: Studies and advising Sahelian countries with regard to
rural development; Agricultural production; Marketing
agricultural products; Inventories of natural
resources; Agro-industries and providing technical
assistance.

New activities planned:

Publications: Articles, study reports.

Sources of Support: International organizations, national governments and
private sources.

Fixed Experimental stations
and their activities:

Source of Information: R

Code: C162

Name: Bioclimatologie INRA-INA PG

Address: Departement de Bioclimatologie
78850 Thiverval-Grignon
FRANCE

Cable/Telex:

Telephone: (3) 056 45 10, 16-11 570 15 50

Name of the Head of the Organ: Prof.A. Perrier

Title: Professeur Directeur de Recherches

No. of Professionals: 40

Main Internal Organization: Six laboratories.

Subject Areas of Concern: Agricultural climatology. Environmental effects. Energy. Water balance. Vegetation. Soil-water-plant relationship. Plant growth. Plant physiology. Remote sensing. Agroforestry. Irrigation. Forage plants.

Specific activities being carried out: Studies on: Environmental factors inciding on plant growth and development; Relationships between soil-plants-water-air; Monitoring of climatic extremes.

New activities planned: Development of agroforestry and regional assessments.

Publications: Agronomic publications.

Sources of Support: Government.

Fixed Experimental stations and their activities:

- Avignon: Artificial climates and agrometeorology;
- Grignon: Micrometeorology, remote sensing of biomass;
- Bordeaux: Micrometeorology of heterogeneous agriculture systems, regional microclimatology;
- Luzignan: Bioclimatology, geo-physiology of forage plants;
- Guadeloupe: Bioclimatology, ecophysiology of intercropping.

Source of Information: R

Code: C163

Name: GERSAR (Groupement d'Etudes et de Réalisations
des Sociétés d'Amenagement Régional)

Address: 4, rue Galilée,
75116 Paris
FRANCE

Cable/Telex: -/613525

Telephone: 723 60 64

Name of the Head of
the Organ: J. Verdier

Title: Directeur

No. of Professionals: 1000 Engineers

Main Internal Organization:

Subject Areas of Concern: Hydrology. Rural development and planning. Social
aspects. Economics. Water resources. Water management.
Agriculture. Water sources. Greenbelts.

Specific activities
being carried out: All kinds of hydraulic developments; Rural dev.;
Studies of masterplans by economic or geographic
sector; Project feasibility studies; Implementation
and technical assistance.

New activities planned: Establishment of greenbelts in the Senegal river
valley, creation of small irrigated agricultural plots
using boreholes.

Publications: Reports, studies and development proposals.

Sources of Support: Government and EEC.

Fixed Experimental stations
and their activities:

Source of Information: R

Code: C166

Name: Groupe de Recherche et d'Echanges
Technologiques

Address: 30, rue de Charonne,
75011, Paris
FRANCE

Cable/Telex:

Telephone: (1) 338 60 60

Name of the Head of
the Organ: M. Levy

Title: Secrétaire Général

No. of Professionals: 24

Main Internal Organization:

Subject Areas of Concern: Animal traction. Irrigation systems. Appropriate
technology. Agriculture. Rural development and
planning. Water management. Water conservation.
Biogas-technology. Post-harvest conservation. Forage
production. Human health. Settlements.

Specific activities
being carried out: Follow-up of projects.

New activities planned:

Publications: Books and manuals on appropriate technology, agric.,
transformation of agriculture, industry, habitat and
construction, technology and development, energy,
health, etc., "Recherche - Développement", newsletter.

Sources of Support: Government, foundations and contracts.

Fixed Experimental stations
and their activities:

Source of Information: R

Code: C167

Name: ENVIPACT

Address: 11, rue des Moulins
31000 Toulouse
FRANCE

Cable/Telex:

Telephone: (61) 52 49 50

Name of the Head of
the Organ: G. Vairel

Title: President

No. of Professionals: 3

Main Internal Organization:

Subject Areas of Concern: Energy. Alternate energy. Biogas technology. Solar
energy. Wind power. Appropriate technology.
Environment. Renewable energy. Training and education
in environmental conservation.

Specific activities
being carried out: Documentation and information on renewable energy and
environment.

New activities planned: Local community training and activities.

Publications: "Energie et Environnement" (quarterly).

Sources of Support: Government contracts and local communities.

Fixed Experimental stations
and their activities:

Source of Information: R

Code: C200

Name: Federal Institute for Geosciences and Natural Resources

Address: Stilleweg 2, D-3000 Hanover 51
FEDERAL REPUBLIC OF GERMANY

Cable/Telex: -/923730/GEOBUND

Telephone: 0511 6430

Name of the Head of the Organ: Prof. Dr. F. Bender

Title: President

No. of Professionals: 690 (274 Geoscientists).

Main Internal Organization: Subdivisions of Hydrogeology; Pedology and Environmental protection.

Subject Areas of Concern: Soil science. Hydrology. Hydrogeology. Water conservation. Water management. Water resources.

Specific activities being carried out: Soil and water development projects.

New activities planned:

Publications: "Geologisches Jahrbuch".

Sources of Support: Government.

Fixed Experimental stations and their activities: None.

Source of Information: R

Code: C203

Name: Geographisches Institut der Universität am Hubland

Address: D-8700 Würzburg
FEDERAL REPUBLIC OF GERMANY

Cable/Telex: UNI Wu/-

Telephone: 093/888 55 55

Name of the Head of the Organ: Dr. H.H. K. Hagedorn

Title: Professor

No. of Professionals: 10

Main Internal Organization:

Subject Areas of Concern: Geomorphology. Climatology. Ecology. Sand dunes. Sediments.

Specific activities being carried out: Geomorphological and climatological investigation in Niger, Chad, Nigeria and Algeria.

New activities planned: Research in Niger, ecology, geomorphology, palaeoclimatology, sedimentology, palynology, and dune stabilization.

Publications: GTZ "Würzburger Geographische Arbeiten".

Sources of Support: Government, Deutsche Forschungsgemeinschaft.

Fixed Experimental stations and their activities: In collaboration with the University of Niger, Niamey.

Source of Information: R

Code: C204

Name: Working Group Drylands - University of Hamburg.

Address: Bundestrassen 55,
D-2000 Hamburg 13
FEDERAL REPUBLIC OF GERMANY

Cable/Telex: -/214 732 UNIHG FRG

Telephone: (40) 41 23 49 68

Name of the Head of the Organ: Prof. H. Mensching

Title: Chairman

No. of Professionals: 4

Main Internal Organization: Working Group, Research Project.

Subject Areas of Concern: Morphology. Desertification. Arid lands management and development.

Specific activities being carried out: Research in Sudan (sp. Darfur) since 1979; Evaluation and review missions in Sahelian countries, including Northern Kenya (IPALKALRES).

New activities planned: Studies in Darfur, Kordofan and Bayuda in Sudan.

Publications: Journal articles, monographs.

Sources of Support: Academy of Science Göttingen. Institut Geographie Unpoa (IGSU)

Fixed Experimental stations and their activities:

Source of Information: R

Code: C206

Name: Institute for Water Resources Research

Address: Callinstrasse 32,
D-3000 Hannover,
FEDERAL REPUBLIC OF GERMANY

Cable/Telex: -/09-238 68

Telephone: (0511) 762 22 37

Name of the Head of
the Organ.: Prof. Dr. K. Lecher

Title: Director

No. of Professionals: 31

Main Internal Organization: Departments of: Water resources research; Ground water hydrology; Simulation techniques for water resources engineering; Urban hydrology; Water quality modelling and Water management in arid and semi-arid zones.

Subject Areas of Concern: Water resources. Hydrology. Agricultural engineering. Water management. Water quality. Water supply. Runoff. Groundwater. Soil physics. Irrigation. Sediments. Aquifers. Rivers. Reservoirs. Training and education in water.

Specific activities
being carried out: Basic and post-graduate courses in water resources, hydrology and agricultural engineering; Research on water resources management, surface hydrology, ground water hydrology and agricultural hydraulic engineering.

New activities planned: River basin management and reservoir system control for arid and semi-arid zones.

Publications: Bulletins.

Sources of Support: Government, national and international research foundations.

Fixed Experimental stations
and their activities: - Ruthe: groundwater research.

Source of Information: R

Code: C300

Name: Istituto Agronomico per l'Oltremare

Address: Via Antonio Cocchi 4
50131 Florence
ITALY

Cable/Telex: -/574549 IA0I

Telephone: 39-55- 57 32 01/2/3

Name of the Head of the Organ: Prof. A. Brandolini

Title: Director General

No. of Professionals: 14

Main Internal Organization: Eight sections and six units.

Subject Areas of Concern: Pastoralism. Rangelands. Agriculture. Crop production. Seeds. Food conservation. Remote sensing. Crop response. Horticulture. Rainfed agriculture. Technology transfer. Cultivation systems.

Specific activities being carried out: Combating desertification in Tunis-Nefzasua Region; Improvement of agro-pastoral zones in Djibouti; Improvement of fruit culture in Cape Verde; Research programme on cashew crop in Tanzania.

New activities planned: Improvement of geoplasm preservation systems in Argentina, introduction of new technology into the Horticultural Exp. Station of San Pedro, Argentina, improvement of fruit crops in Rio Negro and Neuquen, Argentina, seed project Pairuman II in Bolivia, rainfed rice improvement in Low Zaire.

Publications: "Rivista di Agricoltura Subtropicale e Tropicale" (quarterly).

Sources of Support: Government.

Fixed Experimental stations and their activities:

Source of Information: R

Code: C302

Name: Food and Agriculture Org. of the United Nations (FAO)

Address: Via delle Terme de Caracalla, 00100 Rome, ITALY

Cable/Telex: FOODAGRI ROME/610181

Telephone: 579 71

Name of the Head of the Organ: Mr. E. Saoma

Title: Director General

No. of Professionals:

Main Internal Organization: Departments of: Development; Agriculture; Economic and social policy; Fisheries; Forestry; General affairs and Administration and finance.

Subject Areas of Concern: Afforestation. Animal prod.. Biogas tech.. Crop prod.. Dry farming. Ecology. Erosion control. Forestry. Fuelwood. Grazing. Hydrology. Irrigation. Irrigated agric.. Land surveys. Land use. Mapping and cartography. Pastoralism. Parks. Rangelands. Reservoirs. Soil manag.. Sand dunes. Soil fertility. Sheep. Soil science. Soil surveys. Technology transfer. Training and education in forests and waters. Vegetation. Water conserv.. Water resources. Watershed manag.. Wildlife. Forest fires.

Specific activities being carried out: Ecological and vegetational mapping in Afghanistan; Improvement of the Gangadeala National park in Angola; Forest dev. and training in Burundi; Dev. of soil service offices in Cameroon and Burkina Faso; Forest dev. and reafforestation in Cape Verde; Support to forest dev. in Ethiopia; Rural dev. and forests in Guinea Bissau; Establ. of a wildlife institute in India; Modern forest fire control in India; Dryland farming research and dev. in Kenya; Land and water conserv. in Libya; Grazing land livestock dev. in Libya; Sovoka area rehabilitation in Madagascar; Forest manag. and reafforestation in Mali; Mountain areas dev. in Morocco; Sand dune fixation in Morocco; Watershed manag., education and conservation in Nepal; Irrigation techniques in Pakistan; Forest plantation for energy purposes in Peru; Amendment of agro-forest pastoral zones in Tunisia; Range and animal dev. Research Centre in Saudi Arabia; Community afforestation in Couga and Bakelin, Senegal; Dev. of diversified forest rehabilitation in Thailand; Afforestation in the Conoe and Banfora provinces of Burkina Faso; Improvement of farming systems for the Nile Valley in Egypt.

New activities planned:

Publications:

Sources of Support:

Fixed Experimental stations and their activities:

Source of Information: (6)

Code: C303

Name: World Food Programme (WFP)

Address: Via delle Terme di Caracalla
Rome 00100
ITALY

Cable/Telex: WORLDFOOD ROME / 610481 or 680096 or 612030
WORLDFOOD

Telephone: 57 971

Name of the Head of the Organ: Mr. J.C. Ingram

Title: Executive Director

No. of Professionals:

Main Internal Organization: Divisions of Project management; Resources management; External relations and general services,

Subject Areas of Concern: Agriculture. Forestry. Greenbelts. Arid lands management and development. Grazing. Rangelands. Food supply. Foods. Rural development and planning. Erosion control. Sand dunes. Watershed management. Afforestation. Reafforestation. Desertification control.

Specific activities being carried out: Projects since 1980 are summarized as follows: Agricultural dev. in North West coastal zone of Egypt; Rehabilitation of forest, grazing and agric. lands in Ethiopia; Rangeland and forest dev. in Jordan; Food assistance to labour working on Rajistan Canal project in India; Soil and water conserv. and road improvement in Lesotho; Forestry dev. in Manica and Maputo provinces in Mozambique; Assistance to the Tarbela and Mangla watershed in Pakistan; Rangeland dev. and reafforestation in Somalia; Reafforestation and establishment of greenbelt in Syria; Integrated rural dev. of arid and semi-arid zones, erosion control in Tunisia; Watershed manag. in Zambia.

New activities planned: :sgijivirg ti

Publications:

Sources of Support:

Fixed Experimental stations and their activities:

Source of Information: (6)

Code: C401

Name: International Institute for Land Reclamation
and Improvement

Address: P.O. Box 45,
6700 AA Wageningen
NETHERLANDS

Cable/Telex: -/75230 VISI NL

Telephone:

Name of the Head of
the Organ: Dr. Ir. J.A.H. Hendriks

Title: Director

No. of Professionals: 18

Main Internal Organization:

Subject Areas of Concern: Water resources. Water management. Land management.
Land use. Water utilization. Rural development and
planning. Training and education in lands and water.
Irrigation. Drainage. Catchments.

Specific activities
being carried out: Organizing training courses; Advisory work in projects
of development co-operation; collaboration in applied
research on land and water use for agriculture in
third world countries.

New activities planned: Land drainage for salinity control, catchment
management and drainage of inland valley bottoms.

Publications: ILRI publications, bulletins and bibliographies.

Sources of Support: Government.

Fixed Experimental stations
and their activities:

Source of Information: R

Code: C402

Name: Centre for Agrobiological Research

Address: Bornsesteeg 65, P.O. Box 14
6700 AA Wageningen
NETHERLANDS

Cable/Telex: CABO - Wageningen/-

Telephone: 08370-19012

Name of the Head of the Organ: Dr. P. Gaastra

Title: Director

No. of Professionals: 35

Main Internal Organization: Research departments of: Plant physiology: Chemistry: Crop Science, Weed Science and Vegetation Science.

Subject Areas of Concern: Ecology. Plant physiology. Grazing. Vegetation. Plant growth. Weed control. Rangelands. Range management. Agriculture. Land reclamation. Training and education. Crop production. Crop response. Crops. Plant ecology. Plant nutrition. animal ecology. Animal health. Animal husbandry. Animal behaviour. Climate. Soil properties Remote sensing:

Specific activities being carried out: Range management in arid and semi-arid regions, tropics and sub-tropics; Systems analysis in tropical agric.; dev. and application of ecological principles in the exploitation, conserv. and restoration of vegetation in arid and semi-arid regions.

New activities planned: Intensification of current research and of co-operation with national and international organisations.

Publications: Monographs and several publications in periodicals.

Sources of Support: Government.

Fixed Experimental stations and their activities:

Source of Information: R

Code: C500

Name: Estación Experimental Zonas Aridas
Consejo Superior de Investigaciones Cientificas

Address: General Segura, 1 04001 Almeria
SPAIN

Cable/Telex:

Telephone: (951) 23 65 00

Name of the Head of
the Organ: Sr. J.R. Vericad

Title: Director

No. of Professionals: Four

Main Internal Organization: Unidad Estructural de Investigación de Ecología de
Zonas Aridas

Subject Areas of Concern: Ecology. Reptiles. Animal ecology. Animal
distribution. Flora. Entomology. Parasites.

Specific activities
being carried out: Scientific research on: Insects; Entomology; Regional
flora; Ungulates; Reptiles; Insect taxonomy.

New activities planned: Biogeochemical cycles.

Publications: None.

Sources of Support: Government.

Fixed Experimental stations
and their activities: Installation for reproducing Sahelien rare species
G. cavieri, G. dana, G. darcas and for parasite
control.

Source of Information: R

Code: C601

Name: Research Policy Institute,
University of Lund

Address: Box 2017
5-220 02 Lund
SWEDEN

Cable/Telex: RESPOL/LUNIVER S 33533

Telephone: (046) 10 76 17, (046) 10 70 00

**Name of the Head of
the Organ:** Mr. J. Sigurdon

Title: Director

No. of Professionals: 16

Main Internal Organization:

Subject Areas of Concern: Environment. Desertification. Erosion.

**Specific activities
being carried out:** Collection and dissemination of information.

New activities planned:

Publications:

Sources of Support:

**Fixed Experimental stations
and their activities:**

Source of Information: R

Code: C701

Name: Swiss Tropical Institute

Address: Socinstrasse 57
4051 Basel
SWITZERLAND

Cable/Telex: TSETSE BASEL/62508

Telephone: 061/23 38 96

Name of the Head of the Organ: Prof. T.A. Freyvogel

Title: Director

No. of Professionals: 30

Main Internal Organization: Departments of Biology and Medicine; Technical School of Tropical Agriculture; Field laboratory at Ifakara (Tanzania) and Dept. of General Services.

Subject Areas of Concern: Agriculture. Tropical health, Rural development and planning. Pest control. Environment. Animal health.

Specific activities being carried out: Fundamental and applied biomedical research; Teaching; Co-operation with third world countries; Information, documentation and polyclinic services.

New activities planned: Extension of applied field research, including agricultural development.

Publications: "ACTATROPICA" (journal of biomedical sciences).

Sources of Support: Government, National Science Foundation, other foundations and donors.

Fixed Experimental stations and their activities:

- At Ifakara (Tanzania) Field laboratory: interrelations between parasitic infections/immune status/nutritional status/environment.
- At Nairobi, Kenya, in collaboration with ILRAD: Development of culture methods for trypanosomes. Animal vaccination. Studies on parasite distribution in infected animals.

Source of Information: R

Code: C705

Name: International Labour Organization (ILO)

Address: 4, Route des Morillons
CH-1211 Geneva 22
SWITZERLAND

Cable/Telex: INTERLAB GENEVA/22271 BIT CH

Telephone: 99 61 11

Name of the Head of the Organ: Mr. F. Blanchard

Title: Director General

No. of Professionals:

Main Internal Organization: Department of: International labour standards; Technical programmes sector (8 departments); General administration sector (3 departments); and Relations sector (3 bureaus).

Subject Areas of Concern: Afforestation. Erosion control. Soil management. Water management. Rural development and planning. Wood management.

Specific activities being carried out: Anti-erosion works, afforestation and soil conservation in Burundi; Laboratory and intensive public works in soil conservation, afforestation and water management in Cape Verde, Mali, Ruanda, Tanzania and Burkina-Faso; Training of artisans for rural technology in Burkina Faso; Establishment of woodlots and soil conservation in India.

New activities planned:

Publications:

Sources of Support:

Fixed Experimental stations and their activities:

Source of Information: (6)

Code: C706

Name: Office of the United Nations Disaster Relief-Coordinator (UNDRO)

Address: Palais de Nations
1211 Geneva 10
SWITZERLAND

Cable/Telex: UNDRO GENEVA/28148 UNDR CH

Telephone: 31 02 11

Name of the Head of the Organ: Mr. M. Essaafi

Title: Under-Secretary-General

No. of Professionals:

Main Internal Organization:

Subject Areas of Concern: Floods. Drought. Social aspects.

Specific activities being carried out: Pre-disaster relief planning (mainly in flood and drought) in Tanzania and Mozambique.

New activities planned:

Publications:

Sources of Support:

Fixed Experimental stations and their activities:

Source of Information: (6)

Code: C707

Name: World Health Organization (WHO)

Address: 20, Avenue Appia
1211 Geneva 27
SWITZERLAND

Cable/Telex: UNISANTE GENEVA/27821

Telephone: 91 21 11

Name of the Head of the Organ: Dr. H. Mahler

Title: Director-General

No. of Professionals:

Main Internal Organization: 22 divisions.

Subject Areas of Concern: Human health. Social aspects. Water quality. Water supply. Water pollution. Migrations. Water.

Specific activities being carried out: More than 50 projects have been implemented since 1978. Some of these projects are: Onchocerciasis control programme in Volta river basin (covering Burkina Faso, Benin, Ghana, Ivory Coast, Mali, Niger and Togo); Technical co-operation programmes for health (including health services planning and management, basic sanitary measures, health power development, expanded programme of immunization, etc.) in Botswana, Cape Verde, Central African Rep., Chad, Ethiopia, Gambia, Guinea Bissau, Kenya, Lesotho, Mali, Mauritania, Niger, Senegal, Burkina Faso, Bahrain, P.D.R. Yemen, Egypt, Iran, Iraq, Jordan, Kuwait, Lybia, Oman, Pakistan, Qatar, Saudi Arabia, Somalia, Sudan, Syria, Tunisia, U.A. Emirates, Yemen A.R., Morocco, Burma, India, Algeria., Mongolia, Brazil, Chile, Mexico and Peru.

New activities planned:

Publications:

Sources of Support:

Fixed Experimental stations and their activities:

Source of Information: (6)

Code: C708

Name: World Meteorological Organization (WMO)

Address: 41, Avenue Giuseppe-Motta,
Case postale No.5 CH-1211
Geneva 20
SWITZERLAND

Cable/Telex: METEOMOND GENEVA/23260

Telephone: 34 64 00

Name of the Head of the Organ: G.O.P. Obaji

Title: Secretary-General

No. of Professionals:

Main Internal Organization: Departments of World weather watch; Research and development programmes; World climate programme; Hydrology and water resources; Technical co-operation; Education and training; Administration and languages; Publications and conferences.

Subject Areas of Concern: Hydrology. Climatology. Agricultural climatology. Water resources. Remote sensing. Climate-vegetal relationships. Drought. Renewable energy. Wind power. Solar energy. Alternate energy. Desertification control.

Specific activities being carried out: World climate programme to develop a common global strategy for a greater understanding and rational use of climate; Construction and operation of the regional centre of agrometeorology and hydrology in the Sahelian countries; Climatological data for anti-desertification manuals and maps; Application of satellites to agricultural and anti-desertification activities; Research on the effects of weather and climate on plant and animal production; Meteorological aspects of the development of new energy resources such as wind and solar energy; Hydrological aspects of drought; Assessment of water resources.

New activities planned:

Publications:

Sources of Support:

Fixed Experimental stations and their activities:

Source of Information: (6)

Code: C800

Name: Tropical Development and Research Institute

Address: 127, Clerkenwell Road,
London EC1R 5DB,
UNITED KINGDOM

Cable/Telex: MINISTRANT LONDON/-

Telephone: 01-405 79 43

Name of the Head of the Organ: Dr. E.M. Thain

Title: Director

No. of Professionals: 220

Main Internal Organization: Departments of: Biological Science I; Biological Science II; Field; Chemical control; Animal products and feeds; Plant food commodities; Non-food commodities; Storage; Industrial Development; Marketing and Industrial economics; Central Operation

Subject Areas of Concern: Pest management and control. Agricultural products. post-harvest conservation. Forests.

Specific activities being carried out: Identification and behaviour of pests; Distribution of windborne pests; Pest control by pesticides; Phenomones and viruses and their effects on crops; Current target: brown planthoppers, African armyworms stemborers, termites, bollworms, grasshoppers, defoliators and weevils; Improvements in handling, processing, storage and transport of fish, animals, fruit, vegetables, root crops, oilseed edible nuts, cereals and animal feeds; Evaluation of forest resources for pulp and paper industries; Charcoal uses; Waste product utilization; Disease vectors.

New activities planned: Continuation of current activities.

Publications: Periodicals: "Tropical Science" (quarterly), "Tropical Stored Products Information" (3-4 times/year), "Oil Palm News"(annually), biannual report, conference proceedings, newsletter (three times/year) and reports in international journals.

Sources of Support: U.K. Overseas Development Administration Finance work commissioned by ODA and international bodies such as World Bank, FAO, WHO, ECC, etc.

Fixed Experimental stations and their activities: None.

Source of Information: R

Code: C803

Name: Hydroponic Advisory and Information Unit

Address: 119, Glebe Ave.,
Ickenham UB10 8PF
U.K.

Cable/Telex:

Telephone: Ruislip 38877

Name of the Head of the Organ: Mr. J. Sholt Douglas

Title: Director

No. of Professionals: 3

Main Internal Organization: Sections of: Hydroponics; Agroforestry; Miscellaneous.

Subject Areas of Concern: Cultivation systems. Nutrients. Saline water. Hydroponics. Forestry. Controlled environment. Agroforestry. Alternative foods. Land reclamation. Ecology.

Specific activities being carried out: Hydroponic investigations; Agroforestry in arid areas; Alternative food crop usage; Cultivation systems.

New activities planned: Mobile hydroponic production units for famine areas and desert conditions, tree-crops for food, fuel and fodder in desert reclamation, organic nutrient extension, saline water culture.

Publications: Books on hydroponics, forest farming, alternative food crops and applied ecology, occasional newsletters, bulletins and project reports.

Sources of Support: NGO royalties, donations, contributions and contracts.

Fixed Experimental stations and their activities: - At Ickenham (UK)
- At Bombay (India)

Source of Information: R

Code: C804

Name: Intermediate Technology Development Group Ltd.

Address: Myson House, Railway Terrace
Rugby CV21 3HT
U.K.

Cable/Telex: ITDG RUGBY/-

Telephone: (0788) 60631

Name of the Head of the Organ: Dr. H. Frost

Title: Chief Executive

No. of Professionals: 40

Main Internal Organization: Divisions of: Operations; Planning and Communications; Administration.

Subject Areas of Concern: Appropriate technology. Economic development. Rural Development and planning. Water management.

Specific activities being carried out: Advice and assistance to improve efficient cooking stove programmes in the Sahel Region and other areas in Africa, India and Indonesia.

New activities planned:

Publications: "Appropriate Technology" and "Waterlines" (quarterlies), "Boiling point" (irregular), books.

Sources of Support: By independent charity which raises money from British and other national development agencies, foundations, trusts and general public.

Fixed Experimental stations and their activities: At Shinfield (UK).

Source of Information: R

Code: C805

Name: Overseas Division, National Institute
of Agricultural Engineering

Address: Wrest Park,
Silsoe, Bedford
MK45 1AE,
UNITED KINGDOM

Cable/Telex: -/825808

Telephone: 0525 60000

Name of the Head of
the Organ: Mr. R.D. Bell

Title: Head of Division

No. of Professionals: 10

Main Internal Organization:

Subject Areas of Concern: Agricultural engineering. Dry farming.

Specific activities
being carried out: Responsible for the guidance of agricultural
engineering aspects of UK agricultural development
programmes; Providing agricultural engineering
services relevant to the needs of the less developed
countries.

New activities planned:

Publications: Occasional reports, publications on dryland farming
techniques, etc.

Sources of Support: Government - Overseas Development Administration of
the Foreign and Commonwealth Office.

Fixed Experimental stations
and their activities: None.

Source of Information: R

Code: C806

Name: Land Resources Development Centre

Address: Tolworth Tower,
Surbiton, Surrey KT6 7DY
UNITED KINGDOM

Cable/Telex: MINISTRANT LONDON/-

Telephone: 01-399 5281

Name of the Head of
the Organ: Mr. A.J. Smyth

Title: Director

No. of Professionals: 36

Main Internal Organization:

Subject Areas of Concern: Land evaluation. Land use. Land resources. Land survey.

Specific activities
being carried out: Land resources surveys. Land planning and pilot
development implementation in the tropics and
sub-tropics.

New activities planned:

Publications: Land resources studies, project reports, biannual
progress report, occasional monographs.

Sources of Support: Government, contract work with international agencies
(FAO, UNEP) and funding agencies (IBRD, ADB, AFSED).

Fixed Experimental stations
and their activities:

Source of Information: R

Code: C807

Name: Overseas Development Group,
Univ. of East Anglia

Address: Norwich, NR4 7TJ
UNITED KINGDOM

Cable/Telex: -/995801 GLOTLX-G

Telephone: (0603) 57880

Name of the Head of
the Organ: Mr. G. Coleman

Title: Managing Director

No. of Professionals: 27

Main Internal Organization: It is a University department.

Subject Areas of Concern: Land reclamation. Water management. Rangelands.
Pastoralism. Conservation. Environment.

Specific activities
being carried out: Ethiopian land reclamation study; Tanzanian
environmental conservation.

New activities planned:

Publications: Monographs.

Sources of Support: International agencies, national governments and
various foundations.

Fixed Experimental stations
and their activities: Rural Technology Unit at University of East Anglia.

Source of Information: R

Code: C808

Name: Overseas Development Institute

Address: 10, Percy Street,
London WC1P 0JB
UNITED KINGDOM

Cable/Telex: PICODI LONDON W1/-

Telephone: 580 76 83

Name of the Head of the Organ: Mr. T. Killick

Title: Director

No. of Professionals: Nine

Main Internal Organization:

Subject Areas of Concern: Agriculture. Irrigation systems. Pastoralism. Cultivation systems. Desertification. Rural development and planning. Settlements. Forestry. Social aspects.

Specific activities being carried out: Policy-oriented research and promotion and exchange of ideas on: Irrigation management, pastoral development, agricultural administration (extensive service). Some work on shifting cultivation/desertification.

New activities planned: Research, agricultural research, management of common property resources.

Publications: Newsletters, discussion papers, briefing papers.

Sources of Support: Government, grants for special research.

Fixed Experimental stations and their activities: N/A

Source of Information: R

Code: C810

Name: OXFAM

Address: 274, Banbury Rd.,
Oxford OX2 7D2
UNITED KINGDOM

Cable/Telex: -/83610

Telephone: (0865) 567 77

Name of the Head of
the Organ: Mr. F. Judd

Title: Director

No. of Professionals:

Main Internal Organization: Headquarters in Oxford; Regional offices in U.K.;
About 30 field offices.

Subject Areas of Concern: Relief activities. Health. Agriculture. Social
aspects. Agroforestry. Water harvesting. Sand dunes.
Greenbelts.

Specific activities
being carried out: Tree planting projects; Small scale projects on water
harvesting, agroforestry and sand dune stabilization.

New activities planned:

Publications: Quarterly newspaper, information sheets, campaigning
and educational materials.

Sources of Support: Donations and income from shops.

Fixed Experimental stations
and their activities:

Source of Information: R

Code: C812

Name: Department of Geography
School of Oriental and African Studies
University of London

Address: Malet St. London WC1E 7HP
UNITED KINGDOM

Cable/Telex: SOASUL LONDON W11/-

Telephone: (01) 637-2388

Name of the Head of
the Organ: Mr. J. Sargent

Title: Reader in Geography

No. of Professionals: 10

Main Internal Organization:

Subject Areas of Concern: Geography. Remote sensing. Settlements. Land use.
Cultivated lands. Arid lands.

Specific activities
being carried out: Studies on land use and settlement in arid and
semi-arid territories of Asia and Africa; Evaluation
of the role of remotely sensed imagery in monitoring
land use changes in North Africa; Evaluation of
agricultural development projects in Senegal and
Burkina Faso.

New activities planned:

Publications:

Sources of Support: Government (University).

Fixed Experimental stations
and their activities: None.

Source of Information: R

Code: C814

Name: Dept. Geography
University College London

Address: 26, Bedfordway,
London W.C.1
UNITED KINGDOM

Cable/Telex:

Telephone: 01 387 70 50

Name of the Head of
the Organ: Prof. R. Cooke

Title: Head of Department

No. of Professionals: 28

Main Internal Organization:

Subject Areas of Concern: Geomorphology. Arid lands. Training and education.

Specific activities
being carried out: Field research on applied geomorphology in Arabia,
Oman, Mediterranean, south west USA and Africa.

New activities planned: Long term research on environmental appraisal for
development initialized in Tunisia, Oman and Saudi
Arabia.

Publications: Books and technical reports.

Sources of Support: UN, UNU, UNDP, EEC, Governments of Tunisia, Oman,
Saudi Arabia, Kuwait.

Fixed Experimental stations
and their activities: None.

Source of Information: R

Code: C815

Name: Department of Geography,
University of Nottingham

Address: University Park, Nottingham NG7 2RD
UNITED KINGDOM

Cable/Telex: -/37346 UNINOT G.

Telephone: (0602) 506101 extn. 3382

Name of the Head of
the Organ: Dr. P. Mather

Title:

No. of Professionals: 3

Main Internal Organization: Remote Sensing Unit.

Subject Areas of Concern: Mapping and cartography. Land surveys. Land
classification. Land use. Remote sensing. Soil
surveys. Soil erosion. Soil degradation.

Specific activities
being carried out: Analysis of land use changes using Landsat satellite
data, air photo cover and ground survey work;
Examination of soil degradation/erosion, particularly
in the Meru District of Kenya.

New activities planned: Ground survey work, collection of farm data and land
cover data.

Publications:

Sources of Support: Economic and Social Research Council, London and
Overseas Development Administration.

Fixed Experimental stations
and their activities:

Source of Information: R

Code: C816

Name: University of Durham, Dept of Geography

Address: Science Laboratories
South Road, Durham DH1 3LE
UNITED KINGDOM

Cable/Telex:

Telephone: 0385-64971

Name of the Head of the Organ: Prof. I. Simmons

Title: Director Department of Geography

No. of Professionals: 24

Main Internal Organization:

Subject Areas of Concern: Climatology, Remote sensing. Training and education.
Greenbelts. Desertification.

Specific activities being carried out: Climatic impact on Sudan; Remote sensing applications to desertification problems in Tunisia.

New activities planned: Environmental changes in the gum arabic belt of Sudan.

Publications: Theses, periodicals.

Sources of Support: Research Council of the British Government, Sudan Government, post-graduate student fees.

Fixed Experimental stations and their activities:

Source of Information: R

Code: C817

Name: Department of Geography
University of Cambridge

Address: Downing Place,
Cambridge CB2 3EN
UNITED KINGDOM

Cable/Telex:

Telephone: Cambridge (0223) 64416

**Name of the Head of
the Organ:** Prof. R.J. Chorley

Title:

No. of Professionals: 21

Main Internal Organization: Academic Research and Teaching.

Subject Areas of Concern: Irrigation. Arid land management and development.
Training and education. Remote sensing. Mapping and
cartography. Floods. Environment.

**Specific activities
being carried out:** Research on natural and man-induced environmental
variations in floodplain ecosystems in Nigeria and
Kenya; Development of teaching and research facilities
for remote sensing imagery interpretation and computer
cartography.

New activities planned: Funding being sought for project on longitudinal
studies of environmental change on desert margins
using remote-sensed data.

Publications: Publications through established academic journals and
workshop proceedings.

Sources of Support: Government Research Councils, travel grants from
various charitable and university funds.

**Fixed Experimental stations
and their activities:** None.

Source of Information: R

Code: C818

Name: Institute of Development Studies,
University of Sussex

Address: Brighton BN1 9RE
UNITED KINGDOM

Cable/Telex: DEVELOPMENT BRIGHTON/877997 IDSBTN G.

Telephone: (0273) 60 62 61

Name of the Head of
the Organ: Prof. M. Faber

Title: Director

No. of Professionals: 50

Main Internal Organization: Problem Area Groups of: International; Planning and
Government; Human resources; Rural.

Subject Areas of Concern: Rural development and planning. Social aspects.
Pastoralism. Forestry. Training and education.
Productivity.

Specific activities
being carried out: Training for civil servants and academics;
Postgraduate education; Consultancy and research;
Pastoral economies in West Africa. Social forestry in
South Asia. Work on desertification is a very small
part of the activities.

New activities planned:

Publications: "IDS-Bulletin" (quarterly), "Discussion Papers"
(occasional), "Commissioned Studies" (occasional).

Sources of Support: Government, income from teaching, consultancy fees and
research grants.

Fixed Experimental stations
and their activities:

Source of Information: R

Code: C821

Name: Dept. of Aeronatics, Imperial College

Address: 1, Horbury Crescent,
London W11 3NF
UNITED KINGDOM

Cable/Telex:

Telephone: (01) 229 51 11

Name of the Head of
the Organ: P.R. Owen

Title: Professor

No. of Professionals:

Main Internal Organization:

Subject Areas of Concern: Wind erosion. Sands. Dust movement. Dust storms.

Specific activities
being carried out: Theoretical analyses of dust erosion; Wind tunnel
constraint on saltation; Turbulent deposition.

New activities planned: Development of saltation down stream of a passive
surface, dust deposition in porous bodies.

Publications: Papers in scientific journals.

Sources of Support: Government, learned societies..

Fixed Experimental stations
and their activities: None.

Source of Information: R

Code: C822

Name: Duntech Irrigation Service Ltd.,

Address: P.O. Box 1, Akrem House
82, Wellington Street
Thame, Oxon. OX9 3BN
UNITED KINGDOM

Cable/Telex: -/ 83628 DIRRIG G

Telephone: Thame (084421) 54 11

Name of the Head of the Organ: A.J. Enticknap

Title: Managing Director

No. of Professionals: 10

Main Internal Organization:

Subject Areas of Concern: Sand dunes. Irrigation systems. Hydroponics.

Specific activities being carried out: Feasibility studies; Irrigation systems design; Supply of services and equipment; Project management; Design of hydroponic systems; Dune and soil stabilization.

New activities planned:

Publications:

Sources of Support: Contracts.

Fixed Experimental stations and their activities: None.

Source of Information: R

Code: E000

Name: University of New South Wales

Address: Fowlers Gap, Via Broken Hill 2880 NSW
AUSTRALIA

Cable/Telex:

Telephone: Fowlers Gap 2

Name of the Head of
the Organ: Dr. C.R. Carter

Title: Officer-in-Charge

No. of Professionals: One

Main Internal Organ.: Research facility for University of N.S.W.

Subject Areas of Concern: Sheep. Pastoralism. Pastures. Land reclamation.
Vegetation. Geography. Geology. Animal behaviour.
Animal physiology. Grazing. Remote Sensing.

Specific activities
being carried out: Kangaroo and sheep behaviour, physiology, interaction
and effects of grazing on native pastures.

New activities planned: Remote sensing.

Publications: Fowlers Gap Research series.

Sources of Support: University of N.S.W. funds, income from stations and
various research funding grants.

Fixed Experimental stations
and their activities: Itself: It is the focal point for the arid zone
research carried out by members of various schools
from Univ. of N.S.W. and other universities and
organizations.

Source of Information: R

Code: E001

Name: Department of Primary Production

Address: P.O. Box 2134 Alice Springs,
N.T. 5250
AUSTRALIA

Cable/Telex: -/ AA 81285

Telephone: (089)522344

Name of the Head of
the Organ: Mr. S. Phillipott

Title: Regional Director

No. of Professionals: Three

Main Internal Organization:

Subject Areas of Concern: Rangelands. Animal production. Grazing. Range
management. Animal husbandry.

Specific activities
being carried out: Inventory; Monitoring.

New activities planned: None.

Publications: Annual report, occasional papers.

Sources of Support: Government.

Fixed Experimental stations
and their activities: None.

Source of Information: R

Code: E002

Name: Demography Department,
Australian National University

Address: P.O.Box 4, Canberra ACT 2601
AUSTRALIA

Cable/Telex: NATUNIV CANBERRA /-

Telephone: 495111

**Name of the Head of
the Organ:** Prof. J.C. Caldwell

Title: Head of Department

No. of Professionals: 10

**Main Internal Organization:
Subject Areas of Concern:** Demography. Training and Education. Migration. Nomads

**Specific activities
being carried out:** Causes of demographic changes in South and East Asia;
Analysis of Australian population trends; Demographic
changes in Africa including demographic effects of
desertification; Graduate training in demography to
students from Australia and abroad.

New activities planned:

Publications: Monograph series, working papers in demography
(irregular), annual report, demographic studies.

Sources of Support: Government, technical assistance projects.

**Fixed Experimental stations
and their activities:**

Source of Information: R

Code: E004

Name: Bureau of Mineral Resources,
Geology and Geophysics (BMR)

Address: GPO Box 378, Canberra 2601
AUSTRALIA

Cable/Telex: BUROMIN/62109

Telephone: 062 499111

Name of the Head of
the Organ: Prof. R.W.R. Rutland

Title: Director

No. of Professionals: Over 200

Main Internal Organization: BMR consists of four research divisions (the Divisions of Continental Geology, Petrology & Geochemistry, Marine Geosciences & Petroleum Geology, and Geo-physics); a Resource Assessment Division; a geobiological laboratory (the Baas Becking Geobiological Laboratory, jointly staffed by BMR and CSIRO scientists); a Special Projects & Geoscience Services Branch; and a Planning & Programmes Branch.

Subject Areas of Concern: Crusts. Fossils. Geochemical exploration. Geology. Geomorphology. Groundwater. Geography. Geochemistry. Mapping and cartography. Marine geology. Mineralogy. Hydrology. Hydrogeology. Topography. Water table.

Specific activities
being carried out: BMR carries out research and resource assessment activities to promote the understanding of Australia's hydrocarbon and mineral distribution, origin and resources. These activities provide the framework within which exploration and development of these minerals and petroleum resources can be carried out effectively and efficiently. Research activities are divided into eight major scientific programmes: Fossil fuels; Minerals; Groundwater; Earthquake hazards; National & international geoscience maps; Overseas Programmes; Petroleum & minerals resource assessment; and National geoscience databases.

New activities planned:

Publications: Yearbook, BMR research newsletter, Australian mineral industry reviews (annually and quarterly), BMR journal of Australian geology and geophysics, bulletins, reports, records, and many geological and geophysical maps.

Sources of Support: Government.

Fixed Experimental stations
and their activities: Numerous geomagnetic and seismic monitoring stations.

Source of Information: R

Code: E005

Name: CSIRO Division of Applied Organic Chemistry

Address: 506, Lorimer Street,
Fishermans Bend,
Vic 3207
AUSTRALIA

Cable/Telex: CHEMRO MELBOURNE/AA339J1

Telephone: (03) 647 7222

Name of the Head of the Organ: Dr. D.H. Solomon FAA, FTS

Title: Chief of Division

No. of Professionals: 58

Main Internal Organization: CSIRO Institute of Industrial Technology

Subject Areas of Concern: Organic Chemistry. Chemical analysis. Chemical controls. Biotechnology. Biochemistry

Specific activities being carried out: Agrochemical research; New polymen development; Industrial organic chemistry

New activities planned:

Publications: Research reports.

Sources of Support: Government (95%), Industry and others (5%).

Fixed Experimental stations and their activities: None.

Source of Information: R

Code: E008

Name: CSIRO Division of Horticultural Research

Address: G.P.O. Box 350, Adelaide,
S.A. 5001
AUSTRALIA

Cable/Telex: -/AA88000

Telephone: (08) 274 9244

Name of the Head of
the Organ: Dr. J.V. Possingham

Title: Chief of Division

No. of Professionals: 22

Main Internal Organization:

Subject Areas of Concern: Horticulture. Vegetation. Crop response Biotechnology.
Plant growth. Plant genetics. Plant physiology.
Vegetation management. Saline soils. Saline water.
Photosynthesis. Plant breeding. Biochemistry.
Irrigated agriculture.

Specific activities
being carried out: The improvement of woody perennial horticultural crops
in Australia including a range of tropical and
subtropical fruits, nuts and grapevines; Plant
breeding for self tolerance and disease resistance;
Studies of plant tissue culture, plant molecular
biology, virology; Plant adaptation.

New activities planned:

Publications: Biennial research report, technical reports

Sources of Support: Commonwealth Government.

Fixed Experimental stations
and their activities: - HQ (Adelaide): Plant Physiology and biochemistry;
- Merbein Lab (Merbein, Vic): Plant Physiology,
Irrigated horticulture;
- Darwin Lab (Winnellie, N.T.): Tropical
horticulture.

Source of Information: R

Code: E010

Name: CSIRO, Div. of Wildlife and
Rangelands Research

Address: Private Bag,
P.O. Deniliquin NSW 2710
AUSTRALIA

Cable/Telex: -/AA 55457

Telephone: (058) 81 11 33

Name of the Head of
the Organ: Dr. G.N. Harrington

Title: Officer in Charge

No. of Professionals: 20

Main Internal Organization:

Subject Areas of Concern: Arid land management and development. Soil science.
Rangelands. Vegetation.

Specific activities
being carried out: Biotic, Edaphic management and monitoring studies.

New activities planned:

Publications: Biannual report, monographs and "Arid Zone Newsletter".

Sources of Support:

Fixed Experimental stations
and their activities: - Deniliquin in N.S.W.;
- Alice Springs in N.W.

Source of Information: R

Code: E011

Name: CSIRO Division of Groundwater Research,

Address: P.B. PO Wembley, Western Australia 6014
AUSTRALIA

Cable/Telex: -/92178

Telephone: (09) 387 4233

Name of the Head of
the Organ: Mr. R.A. Perry

Title: Chief of Division

No. of Professionals: 28

Main Internal Organization:

Subject Areas of Concern: Water resources. Remote sensing. Ground water. Water
management. Water salinization. Vegetation.

Specific activities
being carried out: Research on ground water dynamics, groundwater
recharge and salinity; Remote sensing of salinity and
recharge, vegetation and groundwater.

New activities planned:

Publications: Divisional reports, journal papers.

Sources of Support: Government (90%), industry (10%).

Fixed Experimental stations
and their activities: Various in Western Australia.

Source of Information: R

Code: E016

Name: Division of Wildlife and Rangelands Research
CSIRO

Address: P.O. Box 84, Lynehom,
A.C.T. 2602
AUSTRALIA

Cable/Telex: -/62284

Telephone: (062) 411211

Name of the Head of
the Organ: Dr. B.H. Walker

Title: Chief of Division

No. of Professionals: 78 (of these 24 work in arid and semi-arid ecosystems).

Main Internal Organization:

Subject Areas of Concern: Wildlife. Land resources. Wildlife management.
Ecology. Plant population. Animal populations.

Specific activities
being carried out: Studying the ecology of animal and plant populations
and providing information concerning processes which
control their stability, diversity, productivity and
value to Australia.

New activities planned:

Publications: "Arid Zone Newsletter" (annually), Division of
Wildlife and Rangelands Research technical papers,
scientific papers through appropriate journals,
other reports on occasional demand.

Sources of Support: Government (80%), other contributions (20%).

Fixed Experimental stations
and their activities:

- Regional laboratories as under Atherton Lab.:
Studies of rainforest areas;
- Central Australian Laboratory: Studies related to
manag. of arid lands;
- Darwin Labs: Studies of tropical sub-coastal
ecosystems;
- Deniliquin Lab.: Dev. of methods and establ. of
principles for use and manag. of semi-arid lands;
- Helena Valley Lab.: Ecological dynamics of nature
reserves in Western Australia.

Source of Information: R

Code: E018

Name: Conservation Commission of the Northern Territory

Address: Box 1046, P.O. Alice Springs
N.T. 5750
AUSTRALIA

Cable/Telex: -/AA 81191

Telephone: (089) 50 82 11

Name of the Head of the Organ: Mr. W.A. Thomas

Title: Director

No. of Professionals:

Main Internal Organization:

Subject Areas of Concern: Rangelands. Land reclamation. Land resources. Conservation. Land use. Land management. Shrubs. Irrigation. Land conservation. Pastoralism. Environmental impact. Water reuse. Waste water. Forest fires.

Specific activities being carried out: Rangeland reclamation; Land rehabilitation; Conservation of flora and fauna; Land use resources assessment and management; Tree and shrub planting using dryland irrigation techniques; Use of waste water and effluents for irrigation; Fire research and management.

New activities planned: Participation in the National Soil Conservation Programme and National Conservation Strategy, mapping of pastoral lands for efficient land management practices, environmental impact assessment of developments (roads etc.) in arid and semi-arid areas.

Publications: Annual reports, technical memoranda and reports.

Sources of Support: Government.

Fixed Experimental stations and their activities: N/A

Source of Information: R

Code: E022

Name: Soil Conservation Service of New South Wales

Address: Box R201, Royal Exchange
Sydney, New South Wales
AUSTRALIA 2001

Cable/Telex:

Telephone: (02) 27 95 51, 27 72 35

Name of the Head of the Organ: Mr. L.D. Longworth

Title: Commissioner

No. of Professionals: 193

Main Internal Organization: Works , Advisory, Research, Land Inventory , Technical servicing.

Subject Areas of Concern: Land reclamation. Erosion control. Soil maps. Soil management. Soil science.

Specific activities being carried out: Works and land management programmes by projects and extension with landholders and authorities; Research and land inventory.

New activities planned: Further projects.

Publications: "Journal of Soil Conservation N.S.W.", soil notes, technical bulletin, maps and occasional papers.

Sources of Support: State Government, Hunter Valley Trust, private landholders, universities and industry funds.

Fixed Experimental stations and their activities: Two research centres carrying out research and three research service centres carrying out investigations and extension.

Source of Information: R

Code: E023

Name: Department of Agriculture, South Australia

Address: G.P.O. Box 1671, Adelaide,
S.A. 5001
AUSTRALIA

Cable/Telex: SAGRIC./88422 SAGRIC

Telephone: (08) 227 9911

Name of the Head of the Organ: J.C. McColl

Title: Director General of Agriculture

No. of Professionals: 370 (in semi-arid areas)

Main Internal Organization: Resources and Operations.

Subject Areas of Concern: Agriculture. Pastoralism. Grasslands. Grazing systems. Range grasses. Range Management. Natural resources. Conservation. Horticulture.

Specific activities being carried out: Assessment and monitoring the rangeland vegetation in the arid zones; Support to arid lands research work carried out by the Botany Dept. of University of Adelaide.

New activities planned: To assist pastoralists in the arid zone by investigating their management practices and future needs, develop appropriate policy guidelines consistent with the conservation of natural resources.

Publications: Fact sheets, technical reports, "State of Agriculture", "Farming Forum".

Sources of Support: State and Commonwealth Government funding, rural industry research funds, rural credit development funding.

Fixed Experimental stations and their activities:

- At Minnipa; Wambi; Turretfield; Kybybolite; Struan; Northfield: Crop and Livestock Research
- At Loxton; Nuriootpa; Lenswood: Horticulture

Source of Information: R

Code: E024

Name: Botany Department
University of New England

Address: Armidale, N.S.W. 2351
AUSTRALIA

Cable/Telex: -/AA 66050

Telephone: (067) 73 23 40

Name of the Head of
the Organ: Prof. J.A. Milburn

Title: Head

No. of Professionals: 8

Main Internal Organization:

Subject Areas of Concern: Grazing. Vegetation. Arid land management and
development. Grasslands. Plant ecology. Grasses.

Specific activities
being carried out: Grazing effects on semi-arid herbaceous vegetation.

New activities planned:

Publications: Articles in periodicals.

Sources of Support: University of New England.

Fixed Experimental stations
and their activities: Douglas McMaster Rural Research station.

Source of Information: R

Code: E025

Name: University of Queensland, Department of Agriculture

Address: St. Lucia, Queensland 4067
AUSTRALIA

Cable/Telex: -/UNIVOLD AA40315

Telephone: (07) 377 3633

Name of the Head of the Organ: Dr. L.R. Humphreys

Title: Head, Department of Agriculture

No. of Professionals: 32

Main Internal Organization:

Subject Areas of Concern: Training and education. Agriculture. Range management.
Grazing. Grasses. Desert grasslands

Specific activities being carried out: Teaching postgraduate course in Range Management;
A Ph.D project on germination and establishment of invading grasses into desert grasslands.

New activities planned:

Publications:

Sources of Support:

Fixed Experimental stations and their activities:

Source of Information: R

Code: E026

Name: Department of Geology and Mineralogy,

Address: University of Queensland, St. Lucia,
Queensland 4067,
AUSTRALIA

Cable/Telex: BRISBANE UNIVERSITY/UNIVQLD AA40315

Telephone: Australia (07) 3772375

Name of the Head of
the Organ: Dr. G.R. Orme

Title: Head of Department

No. of Professionals: One

Main Internal Organization: Environmental Geology team within the department of
Geology (relevant to desertification).

Subject Areas of Concern: Geology. Training and education. Water salination.
Parks and reserves. Pastoralism. Water resources.
Landscapes. Floods.

Specific activities
being carried out: Morphostructural controls upon water and salinisation,
particularly in educational parks accessible to
research students, farmers, pastoralists

New activities planned: Further development of an educational park in a
seasonally arid area of north Queensland, preparation
of an educational text with three-dimensional maps of
educational parks, illustrating water guides, and
studies of minerals associated with water.

Publications: Various morphostructural papers dealing with sections
of the overall programme, leading to a popular
research textbook completed July 1985, an audiovisual
cassette dealing with mapping aspects of
morphostructural controls of water.

Sources of Support: University of Queensland, Rural Credit Development
Fund of Reserve Bank of Australia, Technical and
Further Education Dept. of Queensland.

Fixed Experimental stations
and their activities: - Charters Towers Scientific Station: Primarily an
observatory for seismology and geophysics but with
opportunities for rough rangeland observations and
monitoring in a seasonally arid, tropical granite
landscape.
- Budekia River Educational Park: To illustrate
photostructural monitoring and water interpretation
along a tropical 'sand' river subjected to severe
arid and flood contrasts.

Source of Information: R

Code: E027

Name: Department of Geography
University of Sydney

Address: Sydney 2006
AUSTRALIA

Cable/Telex: -/UNISYD 26169

Telephone: (02) 6923364

Name of the Head of
the Organ: Dr. D.M. Chapman

Title: Director

No. of Professionals: 23

Main Internal Organization:

Subject Areas of Concern: Training and education. Arid land management and
development. Irrigation. Geography.

Specific activities
being carried out: Senior level undergraduate courses in arid zone
management and irrigated land management.

New activities planned:

Publications:

Sources of Support:

Fixed Experimental stations
and their activities:

Source of Information: R

Code: E029

Name: Department of Zoology,
University of Western Australia

Address: Nedlands, Western Australia 6009
AUSTRALIA

Cable/Telex:

Telephone: 09-380-2237

Name of the Head of
the Organ: Dr. K.T. Zwicky

Title: Head

No. of Professionals: 18

Main Internal Organization:

Subject Areas of Concern: Desert animals. Animal behaviour. Animal ecology.
Animal populations.

Specific activities
being carried out: Survey of desert lizards.

New activities planned: Occasional papers.

Publications: Australian Research Grants Scheme.

Sources of Support:

Fixed Experimental stations
and their activities:

Source of Information: R

Code: E030

Name: School of Geography,
University of New South Wales

Address: P.O. Box 1, Kensington,
N.S.W. 2033
AUSTRALIA

Cable/Telex: UNITECH, SYDNEY/AA 26054

Telephone: UNSW: (02) 697 22 22

Name of the Head of
the Organ: Prof. B.J. Garner

Title: Head of School

No. of Professionals: 14

Main Internal Organization:

Subject Areas of Concern: Land evaluation. Land degradation. Rural development
and planning. Migration. Training and education in
lands. Land management. Geography.

Specific activities
being carried out: Post-graduate training in arid lands management;
studies on land evaluation; land degradation and rural
reorganization including migration.

New activities planned: Development of geographic data base system.

Publications: School of Geography monograph series.

Sources of Support: Government.

Fixed Experimental stations
and their activities: - Fowlers Gap Arid Zone Research Station.

Source of Information: R

Code: E032

Name: Land Protection Service

Address: 378, Cotham Road, Kew,
Victoria 3101
AUSTRALIA

Cable/Telex: -/AA 32636

Telephone: (03) 817 13 81

Name of the Head of
the Organ: R.W. Campbell

Title: Director

No. of Professionals: 45

Main Internal Organization:

Subject Areas of Concern: Erosion. Wind erosion. Saline soils. Dry farming.
Water quality. Runoff. Catchments. Land
classification. Land conservation. Agriculture.
Hydrology. Arid land management and development.

Specific activities
being carried out: Conservation cropping of agricultural land in
semi-arid regions.

New activities planned:

Publications: Technical communication series, technical reports,
scientific papers in scientific periodicals,
educational kits and booklets, advisory pamphlets.

Sources of Support: Government and private industry.

Fixed Experimental stations
and their activities:

Source of Information: R

Code: EO33

Name: Department of Agriculture

Address: Rangeland Management Branch
Jarrah Road,
South Perth 6151 W.A.
AUSTRALIA

Cable/Telex: AGDEP Perth/93304,

Telephone: (09) 3670111

Name of the Head of the Organ: Mr. D.G. Wilcox

Title: Principal Adviser

No. of Professionals: 15

Main Internal Organization:

Subject Areas of Concern: Rangeland. Range management. Pastoralism. Plant studies. Grazing.

Specific activities being carried out: Range research in plants, aerial surveys and monitoring of range condition; Range extension to pastoralists; Grazing

New activities planned:

Publications: Bulletins, newsletters, technical reports.

Sources of Support: Government

Fixed Experimental stations and their activities: At Ord River Station via Kununurra W.A. 6743 and, Fox River Station Via Halls Creek. W.A. 6770: Grazing trials, genotype evaluation, husbandry techniques.

Source of Information: R

Code: E041

Name: Department of Botany,
University of Adelaide

Address: GPO Box 498, Adelaide,
South Australia 5001
AUSTRALIA

Cable/Telex: UNIVAD / AA89141

Telephone: (086) 228 53 33

Name of the Head of
the Organ: Dr. G.G. Ganf

Title: Chairman

No. of Professionals: 8

Main Internal Organization:

Subject Areas of Concern: Botany. Training and education. Rangelands. Ecology.

Specific activities
being carried out: Short courses in rangeland ecology (including
reference to desertification) for advanced students.

New activities planned:

Publications: Annual report published by CSIRO in the Arid Zone
Newsletter.

Sources of Support: Government.

Fixed Experimental stations
and their activities: - T.G.B. Osborn Vegetation reserve at Koonamore S.A.:
Arid zone vegetation studies;
- Middleback Field Centre for Arid Zone Studies, near
Whyalla, S.A.: Residential classes and post-graduate
fieldwork.

Source of Information: R

Code: E048

Name: School of Wool and Pastoral Science,
University of New South Wales

Address: P.O. Box 1, Kensington,
N.S.W. 2033
AUSTRALIA

Cable/Telex: UNITECH/AA 26054

Telephone: (02) 697 4482

Name of the Head of
the Organ: J.P. Kennedy

Title: Associate Professor

No. of Professionals: 14

Main Internal Organization:

Subject Areas of Concern: Training and education. Sheep. Range management. Soil
science. Plant studies. Animal production. Range
lands. Animal behaviour. Pastoralism.

Specific activities
being carried out: B.Sc., M.Sc. and Ph.D. courses; Research on sheep
science, wool science and range management.

New activities planned:

Publications: "Wool Technology and Sheep Breeding" (periodical).

Sources of Support: Government, Australian Wool Corporation, Australian
Meat Research Committee, FAO.

Fixed Experimental stations
and their activities: - Fowlers Gap Arid Zone Research Station: Wide range
of research on soils, plants and animals in rangelands.

Source of Information: R

Code: E050

Name: School of Agriculture
University of Western Australia

Address: Nedlands, W.A. 6009
AUSTRALIA

Cable/Telex:

Telephone: 380 25 05

Name of the Head of
the Organ: A.D. Robson

Title: Prof. of Agriculture (Social Sciences)

No. of Professionals: 40

Main Internal Organization: Six academically led groups.

Subject Areas of Concern: Soil chemistry. Soil physics. Soil science. Soil
fertility. Mineralogy. Soil microbiology. Plant
nutrition. Soil properties. Training and education in
soils.

Specific activities
being carried out: Research and teaching in soil chemistry, pedology,
mineralogy, plant nutrition, soil fertility, soil
microbiology.

New activities planned: Studies of soil properties in relation to productivity
and susceptibility to degradation.

Publications: Research papers and annual research report.

Sources of Support: Government and external funding.

Fixed Experimental stations
and their activities: None.

Source of Information: R

Code: E200

Name: Botanical Survey of India (BSI)

Address: P.O. Botanic Garden
Howrah-711103 West Bengal
INDIA

Cable/Telex: BOTSURVEY/-

Name of the Head of the Organ: Dr. M.P. Nayar

Title: Director

No. of Professionals: 279 (eight in the arid zone circle).

Main Internal Organization: Nine regional circles, situated in different phytogeographical regions of the country.

Subject Areas of Concern: Ecosystems. Parks and reserves. Flora. Desert plants. Forage plants. Endangered species. Conservation. Vegetation. Fuel wood. Environmental impact.

Specific activities being carried out: Floristics; Ecosystem analysis; State flora of Rajasthan; Use of lesser known economic plants for fodder and fuel.

New activities planned: Impact of canal irrigation on the ecosystem of Rajasthan desert; National flora Siraska ranthambhore, Ghana; conservation of endangered species.

Publications: Books and research papers.

Sources of Support: Government.

Fixed Experimental stations and their activities: - Arid zone circle, BSI, D-7, Shastri Nagar, Jodhpur-343801, INDIA.

Source of Information: R

Code: E201

Name: Centre for the Study of Developing Societies

Address: 29, Rajpur Road,
Delhi - 110054
INDIA

Cable/Telex: POLITY/-

Name of the Head of
the Organ: D. L. Sheth

Title: Director

No. of Professionals: 21

Main Internal Organization:

Subject Areas of Concern: Economic development. Social aspects. Human factors
studies. Settlements. Environment.

Specific activities
being carried out: Development theory and practice; Politics and society,
organizational studies; Sectors of: Stress; Science
and culture; Environment and development.

New activities planned:

Publications: Books and journals.

Fixed Experimental stations
and their activities: None.

Source of information: R

Code: E203

Name: Central Arid Zone Research Institute

Address: Jodhpur 342003
Rajasthan
INDIA

Cable/Telex: ARID ZONE/-

Telephone: 219 84, 222 88

Name of the Head of the Organ: Dr. K.A. Shankarnarayan

Title: Director

No. of Professionals: 115

Main Internal Organization: Plant Studies. Soil-water-plant relationship. Animal behaviour. Human factor studies. Training, and education. Economics. Desert ecology. Alternate energy. Pest management and control. Nitrogen fixation. Arid land management and development. Agricultural engineering. Biotechnology.

Specific activities being carried out: Basic resource survey; Plant studies; Animal studies; Soil-water-plant relationship; Human factor studies; Extension and training; Economics; Desert ecology; Alternate energy utilization; Pest control; Symbiosis; Nitrogen fixation; Biotechnology; Agricultural engineering.

New activities planned:

Publications: Monographs, research and technical bulletin.

Sources of Support: Government, Indian Council of Agricultural Research.

Fixed Experimental stations and their activities: - At Bikaner, Jaisalmer and Pali.

Source of Information: R

Code: E204

Name: Central Soil Salinity Research Institute

Address: Karnal - 132001
INDIA

Cable/Telex: SALINIT KARNAL INDIA/-

Telephone: 38 74

Name of the Head of the Organ: Dr. I.P. Abrol

Title: Director

No. of Professionals: 60

Main Internal Organization: Research; Administration; Extension; Library and Farm Units.

Subject Areas of Concern: Soil science. Agronomy. Genetics. Plant physiology. Economics. Water quality. Saline water. Saline soils. Appropriate technology. Land reclamation. Ground water. Remote sensing. Biotechnology.

Specific activities being carried out: Adoption of appropriate technologies for: Reclamation of alkaline soils; Reclamation of inland saline soils; Management of coastal saline soils; Improving methods of utilization of saline ground water resources.

New activities planned: Use of remote sensing methods and bio-technology in relation to management of salt affected soils.

Publications: Annual reports, technical bulletins, research and extension papers.

Sources of Support: Government, donor organisations.

Fixed Experimental stations and their activities: - At Canning Town in West Bengal.

Source of Information: R

Code: E207

Name: Centre for the Application of Science
and Technology for Rural Areas

Address: Indian Institute of Science
Bangalore 12
INDIA

Cable/Telex:

Telephone: 344 11 extn. 447

Name of the Head of
the Organ: Prof. K.S. Jagadish

Title: Convener

No. of Professionals: 35

Main Internal Organization:

Subject Areas of Concern: Settlements. Energy. Rural development and planning.
Agriculture. Water management. Forestry.

Specific activities
being carried out:

New activities planned: Start another rural centre.

Publications: Individual reports.

Sources of Support: Government.

Fixed Experimental stations
and their activities: - UNGRA, 115 Kms from Bangalore.

Source of Information: R

Code: E208

Name: Indian Association of Biological Sciences

Address: Life Science Centre,
Calcutta University,
5, Ballygunge Circular Road
Calcutta 700 019
INDIA

Cable/Telex:

Telephone: 47 36 81

Name of the Head of
the Organ: Prof. T.M. Das

Title:

No. of Professionals: 19

Main Internal Organization:

Subject Areas of Concern: Environment. Conservation. Biomes. Ecology. Plant
studies. Air pollution.

Specific activities
being carried out: To promote biological and environmental science by
organizing and collaborating in national and
international symposia, workshops, field study,
researches and publishing books, journals and
monographs.

New activities planned: To collaborate in research on plant response to air
pollution.

Publications: "Indian Biologist", "Environs" (annual).

Sources of Support: Government (Indian Council of Agricultural Research),
Indian National Science Academy, subscriptions.

Fixed Experimental stations
and their activities:

Source of Information: R

Code: E209

Name: Indian Society of Desert Technology.

Address: Faculty of Engineering,
University of Jodhpur
Jodhpur,
INDIA

Cable/Telex:

Telephone:

Name of the Head of
the Organ: Dr. A. Singh

Title: General Secretary

No. of Professionals:

Main Internal Organization:

Subject Areas of Concern: Desert animals. Desert ecology. Desert plants. Desert
soils. Dry farming. Agriculture. Alternate energy.
Water resources.

Specific activities
being carried out: Organizing national conferences on desert technology
every 3 years.

New activities planned:

Publications: "Transactions of Indian Society of Desert Technology
and University Centre of Desert Studies" (biannual).

Sources of Support: University of Jodhpur.

Fixed Experimental stations
and their activities:

Source of Information: R

Code: E211

Name: International Crops Research
Inst. for the Semi-Arid Tropics
(ICRISAT)

Address: ICRISAT Patancheru
P.O. Andhra Pradesh 502 324
INDIA

Cable/Telex: CIRSAT, HYDERABAD/0152-203

Telephone: 22 40 16

Name of the Head of
the Organ: Dr. L.D. Swindale

Title: Director General

No. of Professionals: 86

Main Internal Organization: Seven research programmes; Eight research support
divisions; and five administrative support divisions

Subject Areas of Concern: Plant breeding. Dry farming. Crops. Crop prod.. Plant
genetics. Entomology. Plant pathology. Plant
physiology. Plant biology. Agronomy. Soil physics.
Soil chemistry. Agricultural engineering.
Agricultural climatology. Social aspects. Economic
dev.. Arid land dev. and manag..

Specific activities
being carried out: Multidisciplinary agricultural research in: : Plant
genetics; Entomology; Pathology; Physiology;
Microbiology; Agronomy; Soil physics; Chemistry;
Engineering; Agroclimatology; Biochemistry and
Socio-economics.

New activities planned: Research on farming systems and economics is being
integrated, the work is also being extended to West
Africa through ICRISAT Sahelian Centre at Sadore nea
Niamey, Niger.

Publications: Annual reports, research highlights (annual),
research bulletins, information bulletins,
bibliographies, conference proceedings, newsletters,
plant material descriptions, General audience
publications.

Sources of Support: Donor support throught the CGIAR including
governments and agencies of Australia, Belgium,
Canada, FRG, France, India, Italy, Japan, Mexico, th
Netherlands, New Zealand, Nigeria, Norway, Sweden,
Switzerland, U.K. , USA, and the following
international and private organizations: EEC, World
Bank, IBPGR, IDRC, IFDC, IFAD, Levehhulme Trust,
OPEC, Rockefeller Foundation, UNDP, UNEP, WMO.

Fixed Experimental stations
and their activities:

Source of Information: R

Code: E212

Name: International Commission on Irrigation and Drainage

Address: 48, Nyaya Marg, Chanakyapuri,
New Delhi - 110 021
INDIA

Cable/Telex: INTCOIR

Telephone: 301 68 37, 301 49 62, 301 56 79

Name of the Head of
the Organ: K.K. Franji

Title: Secretary-General

No. of Professionals: 4

Main Internal Organization:

Subject Areas of Concern: Irrigation. Drainage. Agriculture. Economic
development. Ecology. Water management. Flood control.
Rivers. Stream flow. Engineering. Land management.

Specific activities
being carried out: Stimulates and promotes the development and
application of the arts, sciences and techniques of
engineering, agriculture, economics, ecology and
social sciences in managing water and land resources
for irrigation, drainage, flood control and river
training.

New activities planned:

Publications: Bulletin (bi-annual), global reviews, bibliography
(annual), transactions and proceedings of the
Commission's congress, state-of-the-art publications.

Sources of Support: Voluntary annual subscriptions from 80 countries.

Fixed Experimental stations
and their activities: None.

Source of Information: R

Code: E214

Name: Water Development Society

Address: C21 C5 - Industrial Estate,
Maula Ali Hyderabad 500 040
INDIA

Cable/Telex: ROCK RIG/-

Telephone: 851411, 851054

Name of the Head of
the Organ: Mr. J.S D. David

Title: Managing Director

No. of Professionals: 60

Main Internal Organization:

Subject Areas of Concern: Appropriate technology. Ground water. Agriculture.
Crop production. Forestry. Rural development and
planning. Social aspects. Soil management. Water
quality. Health. Training and education in
agriculture. Solar energy. Land reclamation.

Specific activities
being carried out: Ground water investigations; Water quality studies;
Social forestry; Rural health; Out-reach programmes.

New activities planned: Nutrition and childhood disability studies, windmill
and solar pump studies, arid land reclamation studies,
desertification studies. Rehabilitation of sick wells.

Publications: Annual reports.

Sources of Support: Income from the sales of water well DTH rigs.

Fixed Experimental stations
and their activities: - Wamerti: Water and mineral exploration research
and training institute
- Farmers Service Centre.

Source of Information: R

Code: E215

Name: Zoological Survey of India
Desert Regional Station

Address: Paota 'B' Road, 3rd Street.
Jodhpur 342006, Rajasthan,
INDIA

Cable/Telex: ZOOLSUR JODHPUR/-

Telephone: 207 44

Name of the Head of
the Organ: Dr. R.K. Varshney

Title: Officer-in-Charge

No. of Professionals: 17

Main Internal Organization:

Subject Areas of Concern: Fauna surveys. Insects. Reptiles. Mammals. Ecology.
Vertebrates. Invertebrates.

Specific activities
being carried out: Collection, preservation, identification,
classification, care and maintenance of vertebrates
and invertebrate animals; Field surveys; Publication
of research work.

New activities planned: Studies on coccids (scale insects and mealybugs),
reptiles, isoptera, coleoptera and plant mites.

Publications: "Fauna of India", records, memoirs and monographs are
published through Zoological Survey of India
headquarters.

Sources of Support: Government.

Fixed Experimental stations
and their activities: - At Jodhpur Desert Regional Station: Faunistic
surveys in various parts of Rajasthan and Gujarat,
maintanance of a museum, library, photography,
artist and taxidermist units.

Source of Information: R

Code: E218

Name: Physical Research Laboratory

Address: Navrangpura, Ahmedabad 380009
INDIA

Cable/Telex: RESEARCH, AHMEDABAD, INDIA/-

Telephone: 46 21 29

Name of the Head of the Organ: Prof. S.P. Pandya

Title: Director

No. of Professionals: 100

Main Internal Organization: Archaeology - Hydrology area.

Subject Areas of Concern: Environment. Mountains. Erosion. Ecology. Hydrology. Runoff. Sediments. Soil erosion. Soil-water movement. Catchments.

Specific activities being carried out: High resolution palaeoenvironmental research in Kashmir and Rajasthan; Hydrological studies in Gujarat and Rajasthan.

New activities planned: Palaeoenvironmental and archaeological studies in the Narmada Valley and soil erosion in central Himalayas.

Publications: Monographs, books, and research papers in international and national journals.

Sources of Support: Government.

Fixed Experimental stations and their activities: - Site study in central Himalayas for soil erosion research; Establishment of microcatchments on the hillslopes for measuring runoff and various sediment loads.

Source of Information: R

Code: E219

Name: Department of Special Assistance
in Biosciences,
Saurashtra University

Address: Rajkot 360 005,
INDIA

Cable/Telex: BIOSCIENCES, UNIVERSITY, RAJKOT/-

Telephone: 28991-8

Name of the Head of
the Organ:

Title: Vice-Chancellor, Saurashtra

No. of Professionals: 15

Main Internal Organization:

Subject Areas of Concern: Ecosystems. Desertification control. Arid lands
development and management. Environment.

Specific activities
being carried out: Analysis of ecosystems; Inventory and monitoring of
the structure and functions of: already desertified
arid zones in western India, dry and sub-humid zones
in central India under threat of desertification, and
adjoining semi-arid lands likely to be desertified
soon.

New activities planned:

Publications: Periodical reports.

Sources of Support: Government and Saurashtra Univ. grant commission.

Fixed Experimental stations
and their activities: - Jaisalmer;
- Barmer;
- Bikamer.

Source of Information: R

Code: E220

Name: School of Plant Ecology,
University of Jodhpur

Address: Dept. of Botany
P.O. Box 14, Jodhpur 342001
INDIA

Cable/Telex:

Telephone: 22606

**Name of the Head of
the Organ:** Prof. D.N. Sen

Title:

No. of Professionals:

Main Internal Organization:

Subject Areas of Concern: Desert plants. Desert ecology. Desert soils.
Agriculture. Climatology. Rain-fed agriculture. Saline
soils. Land reclamation. Plant adaptation. Plant
biology.

**Specific activities
being carried out:** Plantation of drought resistant species at several
sites in Rajasthan; Dissemination of useful information
on the adaptive biology and ecology of Indian desert
plants.

New activities planned: Reclamation of saline lands of Rajasthan. Management
of arid agro-ecosystem for higher crop yields under
rainfed conditions.

Publications: Research papers, books, "Geobios" (bi-monthly),
"Geobios New Reports" and "Indian Review of Life
Science" (annual).

Sources of Support: University of Jodhpur.

**Fixed Experimental stations
and their activities:**

Source of Information: R

Code: E222

Name: Kelansar Vikas Samiti

Address: VPO Kelansar
Via AAU-342311
DT. Jodhpur, Rajasthan,
INDIA

Cable/Telex:

Telephone:

Name of the Head of
the Organ: H.S. Bishnoi

Title: Chairman

No. of Professionals: 2

Main Internal Organization:

Subject Areas of Concern: Natural resources. Ecosystems. Desertification
control. Desert ecology. Desert soils. Afforestation.
Desert plants. Desert grasslands. Water resources.

Specific activities
being carried out: Pilot study project on regeneration of desert
environment in Kelansar

New activities planned: Development of water resources, afforestation and
cattle, desertification control through grass and
trees and making people aware of the dangers of
desertification.

Publications:

Sources of Support: Government, development assistance and organizations
from other countries.

Fixed Experimental stations
and their activities: - Kelansar.

Source of Information: R

Code: E300

Name: Kyushu University - Irrigation Eng. Lab.,

Address: G-10-1, Higashi-Ku,
Fukuoka 812
JAPAN

Cable/Telex:

Telephone: (092) 641 11 01 extn. 6269

Name of the Head of
the Organ: Dr. T. Cho

Title: Professor

No. of Professionals: 5

Main Internal Organization:

Subject Areas of Concern: Irrigation. Water resources. Soil physics. Water
management. Irrigation effects. Irrigation practices.

Specific activities
being carried out: Research on irrigation and water management of arid
lands in Iran.

New activities planned: Research on water management of arid lands.

Publications: "Irrigation Engineering Research" (periodical).

Sources of Support: Government.

Fixed Experimental stations
and their activities:

Source of Information: R

Code: E301

Name: Sand Dune Research Institute,
Tottory University

Address: 1390 Hamasaka, Tottori 680
JAPAN

Cable/Telex:

Telephone: (0857) 23 34 11

Name of the Head of
the Organ: Prof. A. Matsuda

Title: Director

No. of Professionals: 12

Main Internal Organization: Divisions of: Plant production; Meteorological
environment; Hydrology and irrigation; Arid land
agroecology; Arid land agrosience and Arid land
agricultural information and analysis.

Subject Areas of Concern: Agriculture. Crop Response. Cultivation systems.
Climatology. Hydrology. Irrigation. Drainage. Water
management. Water resources. Irrigation systems. Plant
ecology. Salinity. Plant physiology. Information. Sand
dunes.

Specific activities
being carried out: Basic and applied studies on the characteristics and
growing techniques of field crops and vegetables;
Elucidation of the characteristics of the
meteorological environment; Establ. of tech. for
environmental control; Dev. of preventive methods
against meteorological hazards; Studies on hydrology
and irrigation; Dev. and utilization of agricultural
water resources; Efficient use of irrigation water;
Studies on ecological characteristics of crops and
plants; Studies on the physiological mechanism of
crops for resistance to drought and salinity;
Co-operative research on agricultural dev.. Studies on
compiling a data base of agricultural information.

New activities planned:

Publications: "Bulletin of the Sand Dune Research Institute"
(annually), "Sand Dune Research" (biannually).

Sources of Support:

Fixed Experimental stations
and their activities: Itself.

Source of Information: R

Code: E302

Name: Department of Geography, University of Tokyo

Address: Bunkyo-ku, Hongo
Tokyo, JAPAN

Cable/Telex: TOKUNIVRIGAKU TOKYO/-

Telephone: (03) 812 2111 Ext. 4561

Name of the Head of
the Organ: Prof. Y. Sakaguchi

Title: Head

No. of Professionals: 7

Main Internal Organization:

Subject Areas of Concern: Desertification. Climatology. Geography.

Specific activities
being carried out: Field Survey and Climatological research.

New activities planned:

Publications: Bulletin of the Department of Geography, University of
Tokyo

Sources of Support: Government.

Fixed Experimental stations
and their activities: None.

Source of Information: R

Code: E400

Name: Directorate of Land Reclamation Punjab

Address: Canal Bank Moghalpura, Lahore-15
PAKISTAN

Cable/Telex:

Telephone: 33.17 68

Name of the Head of the Organ: Mr. M.N. Ahmad

Title: Director

No. of Professionals: 114

Main Internal Organization: Laboratory; Field research; Field reclamation.

Subject Areas of Concern: Salinate soils. Irrigation systems. Irrigation practices. Land reclamation. Soil chemistry.

Specific activities being carried out: Research in chemicals and soils at research laboratory; Lysimeter studies and field experimental stations in different locations of Punjab province.

New activities planned: Expansion of research on multiple problems relating to land reclamation particularly on saline and sodic soils.

Publications: Periodicals, monographs (156 have been published).

Sources of Support: Government.

Fixed Experimental stations and their activities:

- One central chemical and soil research laboratory
- Nine field experimental stations: Experimentation and demonstration of land reclamation techniques to the farm peasantry.

Source of Information: R

Code: E403

Name: Pakistan Agricultural Research Council

Address: K-13, Al-Markaz, F-/72
P.O. Box 1031, Islamabad
PAKISTAN

Cable/Telex: AGRESCOUNCIL/-

Telephone: 82 39 76

Name of the Head of the Organ: Dr. A. Muhamed

Title: Chairman

No. of Professionals: 150

Main Internal Organization:

Subject Areas of Concern: Arid land manag. and dev.. Crops. Livestock. Rangelands. Social aspects. Dry farming. Water manag.. Plant adaptation. Soil classification. Soil chemistry. Soil properties. Forage prod.. Land manag.. Water harvesting. Sheep. Grazing. Drought tolerance.

Specific activities being carried out: To establish a national research capability and a network of four research stations to tackle problems of arid lands and dev. techniques; To identify problems in the dev. of crops, livestock, rangelands and the socio-economic sector of arid lands; To collect and analyse statistical data for arid areas.

New activities planned: Improvement of winter cereals and other dryland crops, adaptation of useful wild plants in arid lands, dev. of systems for water application and distribution of crops in arid zones, soil classification in arid areas, soil conserv. practices and their effects on food and forage crops, dev. of techniques for water harvesting, sheep raising and grazing systems, assessments of livestock prod., identification of drought tolerant and nutritious forage species suitable for arid zones, development of suitable utilization system integrating use of farm crops range vegetation and manag. of livestock under nomadic and transhuman grazing systems.

Publications: "Pakistan Journal of Agricultural Research", "Progressive Farming", "PARC Newsletter", brochures, directories, review papers.

Sources of Support: Government.

Fixed Experimental stations and their activities:

- National Agricultural Research Centre, Islamabad;
- Arid Zone Research Institute, Quetta;
- Southern Zone Agricultural Research Station, Sujawal;
- Karakorum Agricultural Research Station, Gilgil;
- Hill Agricultural Research Station, Kaghan;
- Grain Storage Lab., Karachi;
- Vertebrate Pest Control Labs., Karachi;
- Pesticide Research Lab., Karachi.

Source of Information: R

Code: E407

Name: Soil Survey of Pakistan

Address: Multan Road, Lahore - 18
PAKISTAN

Cable/Telex: PAKSOILS/-

Telephone: 43 13 77

Name of the Head of
the Organ: Dr. M.B. Choudhri

Title: Director General

No. of Professionals: 60

Main Internal Organization: Three directorates

Subject Areas of Concern: Soil Surveys. Soil Classification. Mapping and
cartography. Land use. Soil erosion. Soil formation.
Soil maps. Water analysis. Wind erosion. Soil
properties. Water erosion. Salinity. Water logging.
Vegetation. Desertification control.

Specific activities
being carried out: Assessment and mapping of soils at various levels
including soil problems such as: water erosion, wind
erosion, salinity, sodicity, water logging and
vegetation cover; Preparation of land capability, land
use and land form maps and reports; Soil and water
analysis; Creation of awareness of proper land use;
Transfer of soil manag. tech. to agriculture extension
workers; Participation in desertification combat
programmes in the country.

New activities planned:

Publications: Soil survey reports, articles on national soil and
agric. problems, popular booklets, pamphlets on soils.

Sources of Support: Government.

Fixed Experimental stations
and their activities:

Source of Information: R

Code: E408

Name: Cholistan Institute of Desert Studies
Islamia University

Address: Bahawalpur
PAKISTAN

Cable/Telex:

Telephone:

Name of the Head of
the Organ: M.A. Tahir

Title: Joint Director

No. of Professionals: 5

Main Internal Organization:

Subject Areas of Concern: Grasses. Shrubs. Livestock. Desert ecology. Desert
plants. Desert grasslands. Biogas technology. sheep.
Cattle. Water supply. Vegetation.

Specific activities
being carried out: Improvement of the quality and quantity of palatable
grasses, shrubs, etc. for the better health and
increased population of sheep, cows and camels; To
provide drinking water to the inhabitants;
Introduction of biogas to eradicate the use of bushes
and trees as fuelwood.

New activities planned:

Publications:

Sources of Support:

Fixed Experimental stations
and their activities:

Source of Information: R

Code: E500

Name: Institute of Geography, Arzeb
SSR Academy of Sciences

Address: 31, Narimanov Avenue,
Baku 370143,
USSR

Cable/Telex:

Telephone: 382900

Name of the Head of
the Organ:

Title:

No. of Professionals: 50

Main Internal Organization:

Subject Areas of Concern: Arid land development and planning. Land management.
Land conservation. Land use.

Specific Activities
being carried out: Complex irrigation in the arid regions of the
Azerbaijan.

New activities planned: Rational utilization of the arid zones of the country.

Publications: Transactions of the Institute of Geography, reports.

Sources of Support: Government.

Fixed Experimental stations
and their activities: - At: Sarijallar; Shamakhi; Absheron; Ujar; and
Jafarkhan.

Source of Information: R

Code: E501

Name: Institute of Soil Science and
Photosynthesis

Address: Pushchino, Moscow Region 142292,
U.S.S.R.

Cable/Telex: INSTITUTE of Soil Science
PUSHCHINO, Moscow Region 142292
USSR

Telephone: 923 35 58

Name of the Head of
the Organ: Mr. M.S. Kuznetsov

Title: Director

No. of Professionals: 200

Main Internal Organization: Laboratories and groups.

Subject Areas of Concern: Environment. Nature protection. Soil management and
conservation. Irrigation systems. Desertification
control. Soil science. Photosynthesis. Soil
properties. Soil amendment.

Specific activities
being carried out: Predicting changes in soil properties in the process
of their amelioration; Programme for partial
redistribution of the flow of north-bound rivers to
the south.

New activities planned: Continuation of the same and control of agrocenosis
bioproductivity.

Publications: Monographs, collective works, papers and reports.

Sources of Support: Government.

Fixed Experimental stations
and their activities: Pushchino: Mostly agrochemical techniques and methods.

Source of Information: R

Code: E503

Name: Chair of General Soil Science
Faculty of Soil Science
Moscow State University

Address: Moscow 119899 GSP
USSR

Cable/Telex: Moscow 119899 Pochvovedenie/-

Telephone: 139 17 16

Name of the Head of
the Organ: Prof. G.B. Rozanov

Title: Head of the Chair

No. of Professionals: 46

Main Internal Organization: Desertification group.

Subject Areas of Concern: Desertification. Land use. Land conservation. Land
evaluation. Soil degradation. Ecology.

Specific activities
being carried out: Development of desertification assessment and
monitoring parameters; Development of desertification
prevention strategy and combat in different ecological
settings.

New activities planned:

Publications: Scientific articles through periodicals e.g.
"Pochvovedenie", "Problemy osvoenija pustyn", "Vestnik
Moskovskogo Universteta", monographs.

Sources of Support: Government.

Fixed Experimental stations
and their activities: None.

Source of Information: R

Code: E600

Name: Economic and Social Commission for
Asia and Pacific (ESCAP)

Address: United Nations Building,
Rajdamnern Avenue,
Bangkok 10200
THAILAND

Cable/Telex: ESCAP BANGKOK/7882392

Telephone: (282) 9161, 9171, 9181, and 9191

Name of the Head of
the Organ: Mr. S.A.M.S. Kibria

Title: Executive Secretary

No. of Professionals:

Main Internal Organization: Divisions of: ESCAP/UNIDO Industry; Agriculture;
International trade; Transport and communication;
Natural resources; Social dev.; Administration;
Statistics; Dev. planning; Population.

Subject Areas of Concern: Desertification control. Arid land development and
management.

Specific activities
being carried out: Identification of problems in the implementation of
the plan of action to combat desertification; Review
of technology available within the region for
development and management of arid lands as well as
monitoring desertification processes.

New activities planned:

Publications:

Sources of Support:

Fixed Experimental stations
and their activities:

Source of Information: (6)

Code: G100

Name: Forestry and Range Organization

Address: P.O. Box 19/564, Teheran,
IRAN

Cable/Telex:

Telephone: 6126

Name of the Head of
the Organ: M.Z. Zadeh

Title: Deputy Minister of Agriculture in Forestry and Range
affairs.

No. of Professionals: 120

Main Internal Organization: Bureau of Sand dune fixation and desertification
combat.

Subject Areas of Concern: Sand dunes. Sand control. Planting management.
Forests. Forestry. Desert plants. Desertification
control. Wind erosion. Land conservation. Land
reclamation. Land resources. Land use. Plant
adaptation. Afforestation.

Specific activities
being carried out: Fixation of shifting sand dunes with petroleum mulch,
wind breaks, and by planting forest and range plant
species.

New activities planned: Extension of afforestation activities, emphasis on
planting activities in desertified lands, utilization
of rehabilitation areas.

Publications: Technical notes, guidelines and handbooks.

Sources of Support: Government.

Fixed Experimental stations
and their activities: Research Institute of Forestry and Range does the
necessary research in different parts of the country.

Source of Information: R

Code: G102

Name: Dept. of Environment

Address: P.O. Box 4335, Teheran,
IRAN

Cable/Telex: ENVIRONMENT, RAN/-

Telephone: 89 12 61-9

Name of the Head of
the Organ: Dr. H. Manafi

Title: Assist. Prime Minister and Director of the Dept. of
Environment

No. of Professionals: More than 500

Main Internal Organization: Environment Research Bureau.

Subject Areas of Concern: Conservation. Land use. Land management. Wildlife.
Parks and reserves. Desertification control.

Specific activities
being carried out: Anti-desertification activities are carried out by
determination of protected areas, national parks and
wildlife sanctuaries.

New activities planned: Rational management of resources together with proper
land use plans.

Publications: Technical reports and monographs.

Sources of Support: Government

Fixed Experimental stations
and their activities: Game guard posts and stations are located in important
arid areas of Iran. These stations are active in the
field of environmental conservation.

Source of Information: R

Code: G104

Name: Research Institute of Forest and Rangeland.

Address: P.O. Box 13185 - 116, Teheran,
IRAN

Cable/Telex:

Telephone: 94 41 99

Name of the Head of
the Organ: Mr. S.M. Mir-Mohammady

Title:

No. of Professionals:

Main Internal Organization:

Subject Areas of Concern: Watershed management. Sand dunes. Sand control.
Drought. Drought tolerance. Plant adaptation. Plant
physiology. Water allocation. Water management. Water
resources. Water supply.

Specific activities
being carried out: Studies on water relation in sands, different wind
break types, mulch, plant resistance to drought;
Studies on the origin of sand dunes.

New activities planned: Water spreading research (floods) and water supply.

Publications: Monographs and irregular publications.

Sources of Support: Government.

Fixed Experimental stations
and their activities: - Ahwaz (Khozestan);
- Estehan;
- Sabzevar.

Source of Information: R

Code: G200

Name: Agricultural and Water Resources Research
Centre (AWRC)

Address: Council of Scientific Research,
P.O. Box 2416, Jadiriya,
Baghdad
IRAQ

Cable/Telex: BATHILMI (212187) IK

Telephone: 751 20 80

Name of the Head of
the Organ: Dr. S.A.H. Al-Shakir

Title: Director General

No. of Professionals: 312

Main Internal Organization: Departments of: Plant production; Animal production;
Water resources; Dates and Palms; Soil and Hydrology.

Subject Areas of Concern: Soil chemistry. Soil microbiology. Soil fertility.
Soil physics. Morphology. Soil classification. Soil
management. Ground water. Hydrology. Water quality.
Agricultural climatology. Sediments. Agronomy. Plant
pathology. Weed control. Plant nutrition. Vegetation.
Plant genetics. Range management. Horticulture. Anima
production. Animal husbandry.

Specific activities
being carried out: Each department is carrying out intensive research
activities in the areas specified above, specially in
relation to the most urgent problems facing agric. an
range dev.; Assessment of the local breeds of
ruminants; Nutrient requirements and poultry breeding
to establish an Iraqi local breed of poultry.

New activities planned:

Publications: "Jaawr", newsletters, monographs.

Sources of Support: Government.

Fixed Experimental stations
and their activities: - Dalmag: Research in soil and soil reclamation, wate
management;
- Alhartha, Babil and Azeziya: Cultivation and prod
of date palms;
- Ishaki: Agronomy and production;
- Hadeetha: Improvement and dev. of vegetation cover
in arid lands;
- Fudhaliya: All types of agricultural research.

Source of Information: R

Code: G201

Name: Department of Agriculture and Agrarian Reform

Address: Abu Ghraib,
IRAQ

Cable/Telex:

Telephone:

Name of the Head of the Organ: Mr. B.R. Sardast

Title: Director General

No. of Professionals: 20

Main Internal Organization:

Subject Areas of Concern: Rangeland management. Grazing. Sand dunes. Wildlife management. Erosion control. Saline soils. Sand control. Plant adaptation. Vegetation. Grazing systems

Specific activities being carried out: Studies on grazing pressure and control on 150,000 ha; Studies on introduction and development of range plants on 2,300 ha approximately; Sand dune fixation; Protection and propagation of wildlife; Survey of rangelands and identification of density, type and distribution of plant cover; Survey of flooded areas; Introduction of range plants specially Atriplex and Salsola species; Sand dune fixation through tree planting; Erection of earth dams to control erosion; Studies of grazing rotations; Adaptation of range plants to different types of soil, levels of salinity and moisture.

New activities planned:

Publications: Annual reports, occasional books.

Sources of Support: Government.

Fixed Experimental stations and their activities:

Source of Information: (2)

Code: G202

Name: University of Baghdad
Colleges of Agriculture and Science

Address: Baghdad,
IRAQ

Cable/Telex:

Telephone:

Name of the Head of
the Organ:

Title:

No. of Professionals: 275

Main Internal Organization:

Subject Areas of Concern: Salinity. Drainage. Irrigated soils. Plant taxonomy.
Plant ecology. Hydrogeology. Sand dunes. Saline soils.
Training and education.

Specific activities
being carried out:

New activities planned:

Publications: "Iraqi Journal of Agricultural Sciences", "Annual
Bulletin".

Sources of Support: Government.

Fixed Experimental stations
and their activities:

Source of Information: (2)

Code: G203

Name: College of Agriculture and Forestry
University of Mousil

Address: Mousil,
IRAQ

Cable/Telex:

Telephone:

Name of the Head of
the Organ: Dr. D.G. Alawi

Title: Dean

No. of Professionals: 62 (20% devoted to research)

Main Internal Organization:

Subject Areas of Concern: Saline soil. Drainage. Ecology. Environment. Forestry.
Soil classification. Plant ecology. Plant taxonomy.
Training and education.

Specific activities
being carried out: Research projects in various agricultural fields; The
College of Agriculture offers normal curricula leading
to BSc. and MSc. in soils, animal production and
agricultural economics and forestry, a Ph.D. programme
in forestry is also offered.

New activities planned:

Publications:

Sources of Support: Government.

Fixed Experimental stations
and their activities:

Source of Information: (2)

Code: G204

Name: Department of Plant Production
College of Agriculture,
University of Basra

Address: Basra,
IRAQ

Cable/Telex:

Telephone:

Name of the Head of
the Organ: Dr. A.K. Abbas

Title: Head of Department

No. of Professionals:

Main Internal Organization:

Subject Areas of Concern: Saline soils. Drainage. Ecology. Crop response.
Irrigation. Training and education. Agriculture.

Specific activities
being carried out: Research programmes on soil salinity and drainage; The
college offers a programme in the agricultural field
leading to BSc. and MSc. degrees.

New activities planned:

Publications:

Sources of Support: Government.

Fixed Experimental stations
and their activities:

Source of Information: (2)

Code: G206

Name: General Directorate of Applied Agricultural Research

Address: Abu-Ghraib,
Baghdad,
IRAQ

Cable/Telex:

Telephone: 02 03 42 200

Name of the Head of the Organ: Dr. A.D. Ali

Title: General Director

No. of Professionals: 5

Main Internal Organization: Conservation and management of soil.

Subject Areas of Concern: Sand dunes. Soil erosion. Agriculture.

Specific activities being carried out: Fixation of sand dunes by agricultural and mechanical practices.

New activities planned: Same as above, on a larger scale.

Publications: Activity reports, papers presented to some internal conferences.

Sources of Support: Government.

Fixed Experimental stations and their activities: - At Bajee, Zawita and Al-Numaniah.

Source of Information: R

Code: G208

Name: General Establishment of Designs and Research
State Organization for Land Reclamation,
Ministry of Irrigation

Address: Baghdad,
IRAQ

Cable/Telex:

Telephone:

Name of the Head of
the Organ: Dr. A.N. El-Khafaji

Title: Director

No. of Professionals: 20

Main Internal Organization:

Subject Areas of Concern: Land reclamation. Soil fertility. Irrigation.
Drainage. Soil management. Soil formation. Soil
conservation. Water conservation. Sand dunes. Rainfed
agriculture. Cultivation systems.

Specific activities
being carried out: Identification, formation and implementation of soil
fertility and fertilization research programmes
through five research centres; Gypsiferous soil
Research Centre in Al-Dour: Irrigation schemes; Soil
and land reclamation; Rainfed desertlands and soil and
water conservation; Sand dune fixation by chemicals
and tree planting; Sand dune mobility; Terracing on
slopes; Soil salinization in irrigated desert areas;
Water requirements and irrigation methods of crops;
Soil management practices; Construction of small dams
in water courses.

New activities planned:

Publications: Annual reports.

Sources of Support: Government.

Fixed Experimental stations
and their activities:

Source of Information: (2)

Code: G209

Name: Economic and Social Commission for West Asia (ESCWA)

Address: P.O. Box 27, Baghdad,
IRAQ

Cable/Telex: UNATIONS ECWA BAGHDAD/213468 UNECWA IK

Telephone: 556 94 00 to 556 94 49

Name of the Head of the Organ: Mr. M. Said Al-Attar

Title: Executive Secretary

No. of Professionals:

Main Internal Organization: Divisions of: ESCWA/UNIDO Industry; Natural resources; Transport; ESCWA/FAO Agriculture development and planning; Human settlements and population.

Subject Areas of Concern: Rural development and planning. Agriculture. Dry farming. Water resources. Water management. Appropriate technology. Renewable energy. Settlements. Pastoralism. Transport.

Specific activities being carried out: Monitoring and appraisal of agricultural development; Management, conservation and development of agricultural resources; Surveys of dryfarm enterprises; Evaluation of progs. and projects to conserve and manage pastoral lands; Promotion of efficient water resources; Surveys on renewable resources; Transport of appropriate technology; Settlement policies and strategies.

New activities planned:

Publications:

Sources of Support:

Fixed Experimental stations and their activities:

Source of Information: (6)

Code: G300

Name: Forestry Division-Agriculture Research
Organization

Address: ICANOT Mobile Post Lev Hasharon 42 805
ISRAEL

Cable/Telex: -/341118 BXTV-IL

Telephone: 053-99611, 053-97441

Name of the Head of
the Organ: Dr. D. Heth

Title:

No. of Professionals: 6

Main Internal Organization:

Subject Areas of Concern: Forestry. Forest management. Forest products. Wood
technology. Plant genetics. Plant breeding. Ecology.
Afforestation. Arid lands. Environment.

Specific activities
being carried out: Vegetative propagation of eucalyptus; Direct seeding
of conifers; Tree introduction trials; Genetics of
conifers and eucalyptus.

New activities planned: Seed orchards of Pinus halepensis, breeding of
eucalyptus.

Publications: "La Yaaran" (To the forester), leaflets.

Sources of Support: Government, BARD (US-Israel Binational Agricultural
Research and Development Fund).

Fixed Experimental stations
and their activities: Itself.

Source of Information: R

Code: G302

Name: Institute for Applied Research (The)

Address: P.O. Box 1025
Beer-Sheva, 84110
ISRAEL

Cable/Telex: NEGINST/341390 RELAY IL EXT: HMP

Telephone: 575 83 82

Name of the Head of the Organ: Prof. C. Forgacs

Title: Director

No. of Professionals: 165

Main Internal Organization:

Subject Areas of Concern: Agriculture. Biology. Chemical analysis.
Bio-Chemistry. Natural resources. Engineering.
Environment. Water resources. Forest management. Land
management. Land resources.

Specific activities being carried out: Research on the utilization of natural resources and raw materials.

New activities planned:

Publications: Scientific reports.

Sources of Support: Government, international foundations and commercial contractors.

Fixed Experimental stations and their activities: - Seawater irrigation station at Ashqelon.
- Agricultural stations throughout the Neger.

Source of Information: R

Code: G304

Name: Jacob Blaustein Institute for Desert Research

Address: Sede-Boqer Campus, Zip 84990,
ISRAEL

Cable/Telex:

Telephone: 057 353 33

Name of the Head of
the Organ: Prof. J. Gale

Title: Director

No. of Professionals: 65

Main Internal Organization: Research Units.

Subject Areas of Concern: Hydrology. Hydrogeology. Meteorology. Water
salinisation. Irrigation practices. Algae. Solar
energy. Controlled environments. Ecology plant
adaptation. Agriculture. Training and education.
Sewage treatment.

Specific activities
being carried out: Integrated and multi-disciplinary approach for desert
research, development and settlements.

New activities planned: Seminars, workshops, conferences, and training.

Publications: Annual reports, monographs through scientific journals.

Sources of Support: Government and private donations.

Fixed Experimental stations
and their activities: Four experimental desert farms: meteorological
monitoring experimental solar buildings, commercial
algae production ponds, domestic and industrial sewage
purification flats.

Source of Information: R

Code: G305

Name: Dept. of Zoology, Hebrew Univ.,

Address: Hebrew University of Jerusalem,
Jerusalem,
ISRAEL

Cable/Telex:

Telephone: (02) 22 12 81

Name of the Head of
the Organ: U.N. Safriel

Title: Professor

No. of Professionals: 20

Main Internal Organization:

Subject Areas of Concern: Desert ecology. Desert animals. Desert plants.
Reptiles. Training and education in animals.
Vertebrates. Invertebrates.

Specific activities
being carried out: Active research and teaching.

New activities planned:

Publications:

Sources of Support: Government, research funding agencies.

Fixed Experimental stations
and their activities: None.

Source of Information: R

Code: G308

Name: Mitrani Center for Desert Ecology (The)

Address: Blaustein Institute for Desert Research,
Sede Boqer Campus 84990
ISRAEL

Cable/Telex:

Telephone: 057 353 33

Name of the Head of the Organ: Prof. U.N. Safriel

Title: Director

No. of Professionals: 10

Main Internal Organization:

Subject Areas of Concern: Ecosystems. Desert ecology. Stress. Training and education. Desert plants. Desert biome.

Specific activities being carried out: Research on structure and function of desert ecosystems; The response of desert ecosystems to anthropogenic stress; Ecophysiological adaptations to desert environments.

New activities planned: Intensive research and long-term environmental monitoring in the Neger desert.

Publications: Technical and scientific reports.

Sources of Support: Government and grants from various national and international organizations and foundations.

Fixed Experimental stations and their activities: Itself.

Source of Information: R

Code: G309

Name: Institute of Soils and Water
ARO - Volcani Center

Address: P.O.Box 6, Bet Dagan,
ISRAEL

Cable/Telex:

Telephone: 03 - 98 02 72

Name of the Head of
the Organ: Mr. B. Yaron

Title: Director

No. of Professionals: 40

Main Internal Organization: Seven departments of research.

Subject Areas of Concern: Soil physics. Soil chemistry. Agricultural
meteorology. Irrigation. Stress. Physiology. Saline
water. Water requirements in crops. Land reclamation.

Specific activities
being carried out: Irrigation with saline water; Water efficiency;
Reclamation of arid lands.

New activities planned:

Publications: Three annual reports.

Sources of Support: Government (70%), foundations (30%).

Fixed Experimental stations
and their activities: About 30 experimental points around the country.

Source of Information: R

Code: G311

Name: Soil Erosion Research Station

Address: P.O. Ruppin Institute,
Emek Hefer 60690
ISRAEL

Cable/Telex:

Telephone: 053-38294, 053-85564

Name of the Head of
the Organ: Dr. D. Rosenzweig

Title: Director

No. of Professionals: 6

Main Internal Organization:

Subject Areas of Concern: Soil conservation. Hydrology. Drainage. Tillage. Water
conservation. Erosion control.

Specific activities
being carried out: Research and development on Soil conservation;
Hydrology; Drainage and Tillage.

New activities planned:

Publications: Internal reports, reports through international
scientific magazines.

Sources of Support: Government and international foundations.

Fixed Experimental stations
and their activities: - Itself: Hydrological monitoring. Wischmeier plots to
study the tillage influence on soil and water
conservation.

Source of Information: R

Code: G313

Name: Settlement Study Centre

Address: P.O. Box 2355
Rehovot 76120
ISRAEL

Cable/Telex: SETCEN ISRAEL/SSC 361926 DVCEN-IL

Telephone: (08) 47 41 11

Name of the Head of
the Organ: Prof. R. Weitz

Title: Head

No. of Professionals: 43

Main Internal Organization:

Subject Areas of Concern: Rural development and planning. Settlements. Economic
development.

Specific activities
being carried out:

New activities planned: Research projects on problems of regional development.

Publications:

Sources of Support: Government, international agencies.

Fixed Experimental stations
and their activities:

Source of Information: R

Code: G316

Name: Institute of Nature Conservation Research

Address: Tel-Aviv University
ISRAEL

Cable/Telex:

Telephone: (03) 42 08 13

Name of the Head of
the Organ: Prof. Y. Yom-tov

Title: Director

No. of Professionals: 9

Main Internal Organization:

Subject Areas of Concern: Ecology. Pollution. Pest management and control. Water
pollution. Birds. Mammals.

Specific activities
being carried out: Ecology; Research on pollution and pesticide residues
in birds, mammals and agricultural pests.

New activities planned:

Publications: Scientific papers in professional journals.

Sources of Support: Government and private grants.

Fixed Experimental stations
and their activities:

Source of Information: R

Code: G319

Name: Soil Conservation and Drainage Division
Ministry of Agriculture

Address: Hakyria, Tel Aviv 61070
ISRAEL

Cable/Telex:

Telephone: 03-211550

Name of the Head of
the Organ: E. Henkin

Title: Head of Division

Main Internal Organization:

Subject Areas of Concern: Soil conservation. Range management. Soil surveys.
Water reuse. Land use. Drainage. Water
harvesting. Rainfall. Soil erosion. Runoff.
Seepage.

Specific Activities
being carried out: General and detailed planning of above topics.

New activities planned: Water harvesting, utilization of sewage
effluents.

Publications: Monographs, work manual, research reports.

Sources of Support: Government, water and sewage tariffs.

Fixed Experimental stations
and their activities: - Erosion Research Station, Midrasha Ruppin, Emek
Hefer: Research field trials and follow-up
in soil-rainfall-erosion-runoff relationships,
plastic linings to prevent seepage, drainage.

Code: G321

Name: Ministry of Agriculture,
Jewish Agency, Settlement Dept.,
Southern Region

Address: P.O. Box 5, Beer Sheva,
ISRAEL

Cable/Telex:

Telephone: (0507) 30765

Name of the Head of
the Organ: E. Gissin

Title: Head of Southern Region.

No. of Professionals: 60

Main Internal Organization: Sections of: Planning; Water engineering; Sociology;
Architecture: Contracts and Budget.

Subject Areas of Concern: Settlements. Rural development and planning.
Agriculture. Social aspects. Migrations. Human factor
studies. Arid lands development and management.

Specific activities
being carried out: Planning; Settling; Development; Integration of new
settlers; Building of co-operative communities;
Research and development in arid zones.

New activities planned: Settlements, agriculture fitted to arid conditions,
tourism, industry development and research.

Publications:

Sources of Support: Government and World Zionist Budget.

Fixed Experimental stations
and their activities: Four to five research stations in co-operation with
the Government's Agriculture Research Authority and
the University of Negev.

Source of Information: R

Code: G401

Name: Dept. of Forests and Soil Conservation
Ministry of Agriculture

Address: P.O. Box 2179, Amman,
JORDAN

Cable/Telex:

Telephone: 84 27 51, 84 27 52, 84 11 16

Name of the Head of
the Organ: G.A. Urabi

Title: Director of Forestry and Soil Conservation

No. of Professionals: 24

Main Internal Organization:

Subject Areas of Concern: Forestry. Afforestation. Rangelands. Soil management.
Land conservation. Vegetation. Parks and reserves.
Water conservation. Rural development and planning.
Soil surveys. Land classification. Land use. Shrubs.
Seeds.

Specific activities
being carried out: Protection of natural forests; Afforestation of the
bare lands; Development of range reserves and
vegetation cover; Soil and water conservation.

New activities planned: Rural development of the Zarga Basin, soil survey,
land classification and improvement of land use in
Jordan.

Publications: Annual report of forestry in Jordan, technical
publications, several internal publications.

Sources of Support: Government, FAO (a project), German assistance.

Fixed Experimental stations
and their activities: - 12 range stations: Improvement of fodder shrubs;
- Two stations: Development new agricultural
techniques for the Zarga river basin.

Source of Information: R

Code: G403

Name: Water Authority

Address: P.O. Box 2412, Amman,
JORDAN

Cable/Telex: WATERJO/22439 WAJ-JO

Telephone: 66 61 11, 66 61 17

Name of the Head of
the Organ: Eng. M.S. Kilani

Title: President

No. of Professionals: 1500

Main Internal Organization: Seven directorates.

Subject Areas of Concern: Water resources. Water allocation. Water management.
Irrigation. Irrigation programmes. Sewage treatment.
Hydrology. Climatology.

Specific activities
being carried out: Erection of small desert dams; Implementing irrigation
projects.

New activities planned: Water distribution projects and sewerage networks in
villages.

Publications: Technical papers.

Sources of Support: Government, water and sewage tariffs.

Fixed Experimental stations
and their activities: Hydrometeorological stations: Collection of
meteorological data.

Source of Information: R

Code: G404

Name: Royal Society for the Conservation of Nature (RSCN)

Address: P.O. Box 6354, Amman,
JORDAN

Cable/Telex:

Telephone: 81 16 89

Name of the Head of
the Organ: Mr. A. Mouasker

Title: President of RSCN

No. of Professionals: 4

Main Internal Organization: Within Ministry of Agriculture.

Subject Areas of Concern: Wildlife. Parks and reserves. Wildlife management.
Nature protection.

Specific activities
being carried out: Management of Shoumari reserve in the arid land of
Jordan, 100 km east of Amman; Introduction and
protection of wild animals; Enforcement of laws and
regulations for nature conservation, especially
wildlife.

New activities planned: To establish new nature reserve along the Dead Sea
(Mujib Wildlife Reserve).

Publications: "El-Reem" magazine (quarterly).

Sources of Support: Membership subscriptions, Government grant and other
grants from national and international agencies such
as IUCN and WWF.

Fixed Experimental stations
and their activities: - Shaumari Wildlife Reserve;
- Azraq Wetland Reserve.

Source of Information: R

Code: G405

Name: Faculty of Agriculture
University of Jordan

Address: Amman
JORDAN

Cable/Telex: -/21629 UNIV. JO

Telephone: 84 35 55 extn. 2525

Name of the Head of
the Organ: Dr. M. Duwayrt

Title: Dean

No. of Professionals: 150

Main Internal Organization: Six academic departments.

Subject Areas of Concern: Training and education in agriculture, lands and
soils. Crop production. Crop response. Animal
husbandry. Water harvesting. Irrigated agriculture.
Erosion control.

Specific activities
being carried out: Research on soils, crops, animal husbandry; Training
and education.

New activities planned: Research to prevent soil erosion and water harvesting
in the desert.

Publications: "Dirasat".

Sources of Support: University, Government and some support from
international agencies.

Fixed Experimental stations
and their activities: - Jordan Valley Research Station: mainly
irrigated vegetables and fruit trees;
- Moukar Station: Semi-arid land use research.

Source of Information: R

Code: G500

Name: Agriculture Affairs and Fish Resources Authority

Address: P.O. Box 21422, Safat, KUWAIT

Cable/Telex: AGRIFISH-KUWAIT/30072 AGRFISH KT

Telephone: 71 11 55 (exchange)

Name of the Head of the Organ: Shaikh E.D. Al-Sabah

Title: Director-General

No. of Professionals:

Main Internal Organization:

Subject Areas of Concern: Agriculture. Afforestation. Rural development and planning. Greenbelts.

Specific activities being carried out: Research activities in all agricultural branches; Planning for the agricultural sector; Supervising agriculture extension fields; Initiating and maintaining afforestation projects; Planning new public gardens.

New activities planned:

Publications: Newsletters and periodicals.

Sources of Support: Government.

Fixed Experimental stations and their activities: Sudalibia; Abdali; Wafra; and Umarie.

Source of Information: R

Code: G501

Name: Department of Botany and Microbiology
Faculty of Science, University of Kuwait

Address: P.O. Box 5969
KUWAIT

Cable/Telex: -/KT 22616

Telephone: 819369, 830234, 847054, 847083

Name of the Head of the Organ: Dr. A. Al-Musallam

Title: Director

No. of Professionals: 19

Main Internal Organization: Plant Ecology group.

Subject Areas of Concern: Afforestation. Vegetation. Overgrazing. Organic matter
Soil physics. Soil properties. Soil Sciences. Soil
classification. Ecology. Plant physiology.
Afforestation. Plant distribution.

Specific activities being carried out: Distribution of plants in relation to soil factor.

New activities planned: Effects of protection from overgrazing on plant and
soil, ecological effects of afforestation.

Publications: Articles on pure and applied sciences through
"Science", the journal of the University of Kuwait
(biennial).

Sources of Support: Government.

Fixed Experimental stations and their activities: None.

Source of Information: R

Code: G502

Name: Kuwait Institute for Scientific Research (KISR)

Address: P.O. Box 24885, Safat,
KUWAIT

Cable/Telex: SCIENCE-KUWAIT/-

Telephone: 816918/988/989/237/190/301/554

Name of the Head of
the Organ: Dr. A.S. Eldin

Title: Director General

No. of Professionals: 652

Main Internal Organization: Five technical research divisions.

Subject Areas of Concern: Solar energy. Environment. Water resources. Remote
sensing. Desert ecology. Desert soils. Storms.
Sediments. Sand control. Parks and reserves. Grazing.

Specific activities
being carried out: Studies of desert surface sediments. Dynamics of dust
storms. Mobile sand movement and control. Desert
ecology.

New activities planned: Demonstration of effectiveness of selected mobile sand
control methods. National survey of mobile sand
problems.

Publications: KISR annual report, KISR annual research report,
monthly newsletter "Akhbar El-Mahad".

Sources of Support: Government.

Fixed Experimental stations
and their activities: None.

Source of Information: R

Code: G604

Name: National Council for Scientific Research

Address: P.O. Box 11-8281, Beirut
LEBANON

Cable/Telex:

Telephone:

Name of the Head of the Organ: Dr. M. Soufi

Title: Director-General

No. of Professionals:

Main Internal Organization:

Subject Areas of Concern: Desertification control. Entomology. Plant breeding. Forage plants. Forage production. Arid land manag. and dev.

Specific activities being carried out: Research on desertification, economic and non-economic insects; Dev. of plant species (buffalo gourd, forage crops, etc.) that grow under desert arid conditions.

New activities planned:

Publications: Scientific papers and annual reports.

Sources of Support: Government.

Fixed Experimental stations and their activities: - Tel-amara: Research on forage in desert climate;
- Huuchsneid Research Station: Research on Buffalo gourd.

Source of Information: R

Code: G701

Name: Ministry of Agriculture and Fisheries

Address: P.O. Box 467, Muscat,
OMAN

Cable/Telex:

Telephone: 70 20 66

Name of the Head of
the Organ: A.S. Albri

Title: Director of Agriculture Research

No. of Professionals:

Main Internal Organization: Forestry Section.

Subject Areas of Concern: Forestry. Rangelands. Land reclamation. Planting
management. Mist. Plant adaptation.

Specific activities
being carried out: Pilot plantations; Spaces trials; Mist experiments.

New activities planned: Range regeneration.

Publications:

Sources of Support:

Fixed Experimental stations
and their activities:

Source of Information: R

Code: G800

Name: Department of Agricultural Research and Extension

Address: Ministry of Agriculture and Agrarian Reform
Aden,
PEOPLE'S DEMOCRATIC REPUBLIC OF YEMEN

Cable/Telex:

Telephone:

Name of the Head of the Organ:

Title: Under-Secretary of Agriculture and Agrarian Reform

No. of Professionals:

Main Internal Organization:

Subject Areas of Concern: Irrigation. Soil-water-plant relationships. Soil surveys. Water requirements in crops. Agriculture. Livestock. Range management. Settlements. Irrigated Agriculture.

Specific activities being carried out: Research on: irrigated crops, soil-water relationships, irrigation methods, soil surveys, crop-water requirements and improvement of crop and livestock; Range management and rural settlements.

New activities planned:

Publications: Annual report.

Sources of Support: Government, bilateral technical assistance programmes and a UNDP/FAO project.

Fixed Experimental stations and their activities: - Al-Kod Agricultural Research Centre;
- Siaayoon Agricultural Research Centre.

Source of Information: (2)

Code: G900

Name: Remote Sensing Project,
University of Qatar

Address: P.O. Box 2713, Doha,
QATAR

Cable/Telex: UNIVQATAR/-

Telephone: 87 39 10

Name of the Head of
the Organ: Dr. I.A. Elkassas

Title: Director

No. of Professionals: 8

Main Internal Organization:

Subject Areas of Concern: Remote sensing. Natural resources. Drainage. Mapping
and cartography. Hydrogeology. Desertification. Sand
dunes. Minerology. Environmental effects.

Specific activities
being carried out: Drainage mapping and hydrogeological investigations of
Qatar using aerial photos and landsat images;
Desertification monitoring by remote sensing.

New activities planned: Tectonic and structural mapping of Qatar peninsula,
investigations of mineral resources, sequential
mapping and sand dune fixation in Qatar.

Publications: Technical reports and scientific papers in Erim
Symposia.

Sources of Support: Government.

Fixed Experimental stations
and their activities: Remote Sensing Laboratory.

Source of Information: R

Code: G901

Name: Department of Agricultural and Water Research

Address: Ministry of Industry and Agriculture
P.O. Box 1967, Doha,
QATAR

Cable/Telex: HYDAGR DH/4751

Telephone: 43 34 00

Name of the Head of the Organ: Mr. M.F. Al-Faihani

Title: Director

No. of Professionals: 17

Main Internal Organization: Sections of: Water; Soil; Field crops.

Subject Areas of Concern: Water conservation. Ground water. Saline water. Soil science. Plants. Agriculture. Crop response. Sand dunes. Green houses.

Specific activities being carried out: Artificial groundwater recharge. Saline water use in agriculture.

New activities planned: A project on protection of native plants.

Publications: Annual reports, agricultural statistics, agro-hydro meteorological data, section reports.

Sources of Support: Government.

Fixed Experimental stations and their activities: - Rodhat Al Faras Experimental Station: General agric.
- Rodhat Harmah Station: Field crops;
- Al Otoriyah Station: Protected agric. (green houses);
- Wadi Al Ariage Station: Sand dunes and saline water farming.

Source of Information: R

Code: G902

Name: Directorate of Animal Health
Ministry of Industry and Agriculture

Address: Doha,
QATAR

Cable/Telex:

Telephone:

Name of the Head of
the Organ: Mr. M. El-Muatasim

Title: Director

No. of Professionals:

Main Internal Organization:

Subject Areas of Concern: Wildlife protection. Rangeland management.

Specific activities
being carried out: Introduction of range management plans for two
protected stations, Shahatich and Abu Saura, where
oryx and gazelle are raised.

New activities planned:

Publications:

Sources of Support:

Fixed Experimental stations
and their activities:

Source of Information: (2)

Code: G903

Name: Scientific and Applied Research Centre (SARC)
University of Qatar

Address: Doha, P.O. Box 2713
QATAR

Cable/Telex: UNIVQATAR/-

Telephone: 86 78 00

Name of the Head of
the Organ: Dr. M. I. Kazim

Title: Head of the Directory Board and President of the Univ.

No. of Professionals:

Main Internal Organization:

Subject Areas of Concern: Health. Environment. Agriculture. Foods. Remote
sensing. Chemical analysis. Solar energy.

Specific activities
being carried out:

New activities planned: Earth gas and its chemical aspects.

Publications: Books, atlas, technical papers.

Sources of Support: Government.

Fixed Experimental stations
and their activities: - Remote Sensing Station;
- Reverse Osmosis Plant run by solar energy.

Source of Information: R

Code: H001

Name: Department of Agricultural Research
Ministry of Agriculture and Water

Address: Riyadh,
SAUDI ARABIA

Cable/Telex:

Telephone:

Name of the Head of
the Organ: Mr. Z.I. El-Juwaira

Title:

No. of Professionals:

Main Internal Organization:

Subject Areas of Concern: Agriculture. Animal production. Animal health.
Agronomy. Arid lands management and development.
Rangeland management. Crop production. Saline soils.
Irrigation. Plant adaptation. Irrigated agriculture.

Specific activities
being carried out: Implementation of research activities in various
fields of agricultural production; Tamarix propagatio
and adaptation; Introduction of fodder crops under
irrigation.

New activities planned:

Publications: Annual reports.

Sources of Support: Government.

Fixed Experimental stations
and their activities: - At Riyadh, Reg. Centre for Agricultural Research and
Water;
- At Hufoof, Reg. Centre for Animal Wealth Research;
- At Qasseem, Agricultural Research Centre;
- At Khubar, Agricultural Research Centre in the East
- At Najiran, Horticultural Research Centre in coop.
with FAO;
- At Al-juf, Rangeland Research Center in coop. with
FAO.

Source of Information: (2)

Code: H002

Name: Land Management Department
Ministry of Agriculture and Water

Address: Riyadh,
SAUDI ARABIA

Cable/Telex:

Telephone: 01 40 44 521

Name of the Head of the Organ: Mr. M.A. Ben Mahfouz

Title: Director General

No. of Professionals: 85

Main Internal Organization: Within the Ministry of Agriculture and Water.

Subject Areas of Concern: Soil science. Land resources. Soil surveys. Land surveys. Land classification. Land reform. Soil maps. Rural development and planning.

Specific activities being carried out: Preparing a general soil map of Saudi Arabia (scale 1:250000); Soil survey and land classification in selected areas; Carrying out aerial photography and earthphotomapping for new areas; Allocation of arable land to Saudi farmers and companies to develop crop and animal production.

New activities planned: Monitoring programme on the development of allocated land to farmers, a Cadas Irad survey project.

Publications: Schematic soil map of Saudi Arabia - scale 1:2,000,000.

Sources of Support: Government.

Fixed Experimental stations and their activities: A new soils and water analysis laboratory is under construction.

Source of Information: R

Code: H003

Name: Department of Soils
Department of Plant Production
College of Agriculture
King Saud University

Address: Riyadh,
SAUDI ARABIA

Cable/Telex:

Telephone:

Name of the Head of
the Organ: Dr. A. Abu-Hassan

Title: Dean

No. of Professionals: 45

Main Internal Organization:

Subject Areas of Concern: Training and education. Soil surveys. Saline soils.
Soil fertility. Crop production. Irrigation. Water
quality. Sand dunes. Rangelands. Desert plants. Soil
classification. Trees.

Specific activities
being carried out: Research programmes in soil science, water
requirements, sand dune fixation, tree planting,
ecology and production of range plants.

New activities planned:

Publications: "The College of Agriculture Research Bulletin"
(biennial).

Sources of Support: Government.

Fixed Experimental stations
and their activities:

Source of Information: (2)

Code: H005

Name: Department of Plant Production,
Department of Soils,
College of Agriculture, Sciences and Food,
King Faisal University

Address: Al-Ahsa, P.O. Box 380, Riyadh,
SAUDI ARABIA

Cable/Telex:

Telephone:

Name of the Head of
the Organ: Dr. Y.H. Makki

Title: Dean

No. of Professionals: 35 (mostly engaged in teaching).

Main Internal Organization:

Subject Areas of Concern: Animal production. Land reclamation. Training and
education. Sand dunes. Range land management. Saline
soils. Drainage. Pastures. Soil surveys. Water
requirements in crops.

Specific activities
being carried out: Studies on soil reclamation in Al-Ahsa basin;
Production of range and pasture plants; water
requirements of several vegetable crops, soil surveys
and range plants.

New activities planned: Productivity and management of the land resources of
the eastern province, including sand dune fixation,
soil salinity and drainage, animal production and
range management.

Publications: "Journal of Biological Sciences".

Sources of Support: Government.

Fixed Experimental stations
and their activities:

Source of Information: (2)

Code: H008

Name: Sand Stabilization Project

Address: Al-Hassa, Hofuf,
P.O. Box 77
SAUDI ARABIA

Cable/Telex:

Telephone: 03/586 74 24

Name of the Head of
the Organ: Mr. Y. A. Wahed

Title: Director

No. of Professionals: 5

Main Internal Organization: Within Ministry of Agriculture and Water.

Subject Areas of Concern: Sand dunes. Afforestation. Dry farming. Drainage.

Specific activities
being carried out: Planning shelterbelts to stop sand movement;
Evaluation of problems of moving sand dunes and
measures for their control.

New activities planned: Extension of field work using new methods for sand
stabilization.

Publications: Annual report, booklet (in arabic).

Sources of Support: Government.

Fixed Experimental stations
and their activities: - Al-Hassa - main project: Shelter belts in
sub-stations without irrigation, depending
on dune moisture;
- Pilot project for afforestation: by using
drainage water methods.

Source of Information: R

Code: H009

Name: Saudi Arabia National Center for
Science and Technology (SANCST)

Address: P.O. Box 6086, Riyadh,
SAUDI ARABIA

Cable/Telex:

Telephone:

Name of the Head of
the Organ: Dr. R. Obeid

Title: President

No. of Professionals:

Main Internal Organization:

Subject Areas of Concern: Solar energy. Sand dunes. Desert ecology.
Desertification control.

Specific activities
being carried out: Several projects related to desertification. A study
on sand dune fixation.

New activities planned:

Publications: None.

Sources of Support: Government.

Fixed Experimental stations
and their activities:

Source of Information: (2)

Code: H101

Name: Arab Centre for the Studies of Arid Zones
and Dry Lands (ACSAD)

Address: P.O. Box 2440, Damascus,
SYRIA

Cable/Telex: ACSAD/-

Telephone: 75 57 13, 75 57 14

Name of the Head of
the Organ: Dr. M. El-Khash

Title: Director General

No. of Professionals: 75

Main Internal Organization: Divisions of: Soil science; Water science and Animal
science; Soil chemistry; Water management.

Subject Areas of Concern: Soil maps. Fertilizers. Micronutrients. Irrigation
systems. Water requirements in crops. Land resources.
Land conserv.. Land manag.. Sand dunes. Mapping and
cartography. Water manag.. Meteorology. Hydrology. Water
law. Parks and reserves. Natural resources. Drought
tolerance. Plant studies. Plant adaptation. Plant
genetics. Plant breeding. Rangelands. Land reclamation.
Animal genetics. Sheep. Livestock. Animal prod.. Grazing
systems. Animal husbandry.

Specific activities
being carried out: Projects of: Survey and collection of drought resistant
species and clones of pistachio, almond, olive, grape and fig
from Arab states and internat. insts; Initiation of
mother-tree nurseries for genetic and breeding materials in
Syria and exchange of these materials with the Arab states
and internat. insts.; Introduction of budwood and exchange of
genetic materials with Arab states and internat. agricultural
organs; Study of appropriate cultivation practices and manag.
to enhance prod. of fruit trees in semi-arid zones; Selection
of the best adapted fruit trees and their proper rootstocks
for further propagation and distribution to Arab states;
Monitoring and admin. of range resources with special
reference to range land ecosystems in arid and semi-arid
zones; Comparative testing of native and induced range
species to study their adaptability under varying ecological
conditions; Rehabilitation of rangelands through application
of different approaches under differing socio-economic and
ecological complexes; Collection, conservation and evaluation
of plant genetic resources with particular reference to
species of major economic importance and their wild and
cultivated relatives; Stimulating the availability of
material for plan breeding and other scientific activities;
Promotion of dissemination of information and materials

H101 (cont...)

materials throughout concerned centres and institutions; Genetic improvement of Awassi sheep through selection; Animal feed resources in the Arab countries; Nutritive and grazing value of Atriplex spp. for sheep; Diet selection and forage preference and behaviour of camels, goats and sheep under different ecological zones; Sheep improvement in Yemen D.R.; Development of Arabic encyclopedia of animal resources; Study of goat and camel resources in Arab states; Improvement of Sudanese desert sheep; Study of problems associated with sheep nutrition in arid regions; and Establ. of ACSAD data bank for animal and feed resources in the Arab world.

New activities planned:

Publications: Technical reports, annual report (mainly in Arabic).

Sources of Support: Contributions from governments of Arab member countries

Fixed Experimental stations and their activities:

- IZRAA: Applied research on agricultural tech. under rainfed conditions;.
- Der El-zor Station: Applied research on agricultural technology under irrigation;
- Merj El-Krem Station: improvement of sheep prod..

Source of Information: R

Code: H102

Name: Steppe, Range and Sheep Directorate

Address: Syrian Ministry of Agriculture and Agrarian Reform
Damascus,
SYRIA

Cable/Telex:

Telephone: 22 27 00, 22 13 09

Name of the Head of the Organ: Eng. H. Al Samman

Title: Minister of Agriculture and Agrarian Reform

No. of Professionals: 187

Main Internal Organization:

Subject Areas of Concern: Desert plants. Desert ecology. Desertification control. Sand dunes. Seeds. Grasslands.

Specific activities being carried out: Projects on pastoral plants and sand dune fixation in Al-Kassrah site in Der Zor Steppe.

New activities planned:

Publications: Monographs.

Sources of Support: FAO, UNU, University funds.

Fixed Experimental stations and their activities: - University meteorological station;
- Harmattan deposition site.

Source of Information: R

Code: H103

Name: Faculty of Agriculture - University of Aleppo

Address: University of Aleppo, Fac. of Agriculture,
SYRIA

Cable/Telex:

Telephone: 236145, 236144

Name of the Head of
the Organ: Dr. K. Massoud

Title: Dean

No. of Professionals:

Main Internal Organization:

Subject Areas of Concern: Climatology. Soil science. Hydrology. Soil degradation.

Specific activities
being carried out: Application of Gwessen equation; Relation between the
degree of aridity and the structural stability.

New activities planned:

Publications:

Sources of Support: Government

Fixed Experimental stations
and their activities:

Source of Information: R

Code: H104

Name: Department of Soils, Department of Animal Production
Faculty of Agriculture
University of Damascus

Address: Damascus,
SYRIA

Cable/Telex:

Telephone:

Name of the Head of
the Organ: Dr. K. Odeh

Title: Dean of the Faculty of Agriculture

No. of Professionals: 45 (mostly devoted to teaching).

Main Internal Organization:

Subject Areas of Concern: Flora. Rangelands. Saline soils. Soil fertility.
Irrigation. Agriculture. Training and education.
Pastures. Plants. Rainfed agriculture. Ecology.

Specific activities
being carried out: Research projects on flora surveys, range plants, soil
salinity in irrigated and rainfed agricultural lands.
Teaching on range management, ecology, soils and
pastures.

New activities planned:

Publications: None.

Sources of Support: Government.

Fixed Experimental stations
and their activities:

Source of Information: (2)

Code: H106

Name: International Center for Agricultural
Research in the Dry Areas (ICARDA)

Address: P.O. Box 5466, Aleppo,
SYRIA

Cable/Telex: -/331206, 331208, 331263

Telephone: 23 52 21, 23 48 90, 23 52 20, 21 34 77 and 21 34 33
(Tel. Hadya Farm)

Name of the Head of
the Organ: Dr. M. A. Nour

Title: Director General

No. of Professionals: 52

Main Internal Organization: Four principal research programmes plus research
support units.

Subject Areas of Concern: Agriculture. Crop production. Crop response. Forage
plants. Forage production. Agronomy. Water management.
Water use. Livestock production. Plant biology. Plant
breeding. Plant ecology. Plant genetics. Plant
physiology. Dry farming. Rainfed agriculture. Soil
science.

Specific activities
being carried out: Principal responsibility within CGIAR for research on
barley, lentils and faba beans; Reg. responsibility
for research on wheat, chick peas and forage crops;
Also research on crop water use and livestock
production and improvement of rainfed agriculture.

New activities planned: Expanded work in high elevation environments in
Baluchistani, some work on dry peas.

Publications: Annual report, "Research Highlights" (annual), Faba
bean abstracts and the following newsletters: "Fabis",
"Lentils" (bi-annual), "Rachis", many occasional
publications and articles in scientific journals.

Sources of Support: CGIAR in addition to special funds from international
donor agencies (notably IFAD and OPEC) for particular
projects.

Fixed Experimental stations
and their activities: - Tel Hadya: consists of about 970 ha, of which 700
are cultivated for field trials;
- Terbol in the Bekaa Valley of Lebanon.

Source of Information: R

Code: H200

Name: Grassland and Animal Husbandry Research Institute

Address: P.O. Box 453, Ankara,
TURKEY

Cable/Telex:

Telephone: 23 13 82, 23 13 83, 23 65 57

Name of the Head of
the Organ: Dr. A. Karabulut

Title: Director

No. of Professionals: 24

Main Internal Organization: Ass. Director Technical Affairs: Research Depts. of
grasslands, forage crops, cattle and sheep breeding,
fodder and animal nutrition research; genetics and
statistics; Asst. Director Administrative Affairs:
offices of agricultural machinery, current and
investment budget services and supporting units.

Subject Areas of Concern: Forage production. Range management. Animal
production. Animal genetics. Animal health.
Grasslands. Cattle. Sheep. Agronomy. Animal
physiology. Animal husbandry.

Specific activities
being carried out: Research on grasslands, forage crops and animals.

New activities planned: Research on farm level.

Publications: Research reports, technical notes.

Sources of Support: Government.

Fixed Experimental stations
and their activities: Itself.

Source of Information: R

Code: H201

Name: Rural Service General Directorate

Address: Ulus-Ankara,
TURKEY

Cable/Telex: Köy HIZMETLERI-ANKARA/-

Telephone: 10 76 92

Name of the Head of
the Organ: E. Bilgic

Title: General Manager

No. of Professionals: 3,100

Main Internal Organization: 67 province offices; 18 regional offices; 11 research
institutions.

Subject Areas of Concern: Soil survey. Erosion control. Irrigation. Drainage.
Water supply. Rural development and planning.

Specific activities
being carried out: Soil surveys; Investments and demonstration projects.

New activities planned:

Publications: "Köy HIZMETLERI" technical bulletin.

Sources of Support: Government.

Fixed Experimental stations
and their activities: Eleven soil and water research institutions: Soil
conservation, related research and experiments.

Source of Information: R

Code: H202

Name: General Directorate of Forestry

Address: Bakanliklar, Ankara,
TURKEY

Cable/Telex: General Directorate of Forestry Bakanliklar Ankara/-

Telephone: 80-41 17 76 42, 90-41 18 38 24

Name of the Head of
the Organ: M. A. Kapadeniz

Title: Director

No. of Professionals: 275

Main Internal Organization: Department of Reafforestation and afforestation.

Subject Areas of Concern: Erosion control. Rangelands. Forestry. Afforestation.
Reafforestation. Land management. Coastal deserts.
Sand dunes.

Specific activities
being carried out: Erosion control in the arid and semi-arid areas. Sand
dune stabilization along the coast.

New activities planned:

Publications: Occasional papers.

Sources of Support: Government.

Fixed Experimental stations
and their activities: - Tarsus;
- Antalya.

Source of Information: R

Code: H300

Name: Horticultural Section, Alain Municipality

Address: P.O. Box 1003, Alain,
Abu-Dhabi,
UNITED ARAB EMIRATES

Cable/Telex: 34008 BALDIA EM

Telephone: 63 56 60

Name of the Head of
the Organ: Mr. M.A. Nafissi

Title: Chief Horticulturist

No. of Professionals: Six

Main Internal Organization:

Subject Areas of Concern: Trees. Plant adaptation. Parks and reserves. Forestry.
Desert plants. Desert soils. Greenbelts.

Specific activities
being carried out: Beautifying the town areas with tree-lined avenues,
parks and gardens; Some forest development in desert
suburbs.

New activities planned: Expanding the present activities to surroundings which
are more desertified.

Publications: Monthly reports.

Sources of Support: Government.

Fixed Experimental stations
and their activities: Nurseries in desert areas and some afforestation and
gardening projects in Alain province.

Source of Information: R

Code: H301

Name: Arid Land Research Center

Address: Sadiyat, Abu-Dhabi,
UNITED ARAB EMIRATES

Cable/Telex:

Telephone:

Name of the Head of
the Organ:

Title: Under Secretary of Agriculture and Fisheries

No. of Professionals:

Main Internal Organization:

Subject Areas of Concern: Irrigation systems. Plant adaptation. Horticulture.
Saline water. Water salinisation. Greenhouses.

Specific activities
being carried out: Introduction and improvement of vegetable prod. under
greenhouse conditions; Some work on the utilization of
desalinated sea water for irrigation.

New activities planned:

Publications: Annual reports.

Sources of Support: Government.

Fixed Experimental stations
and their activities:

Source of Information: (2)

Code: H400

Name: Central Agricultural Research Station

Address: Taiz,
YEMEN ARAB REPUBLIC

Cable/Telex:

Telephone:

Name of the Head of
the Organ: Mr. A.R.S. Qasim

Title: Director of Research

No. of Professionals:

Main Internal Organization:

Subject Areas of Concern: Crop production. Animal production. Soil
classification. Water resources. Land reclamation.
Water conservation. Water requirements in crops.

Specific activities
being carried out: Research on crop-water requirements in an Asaifra
farm; Soil classification; Water surveys; Field crop
improvement and water conservation.

New activities planned:

Publications: Occasional reports.

Sources of Support: Government and grants from outside agencies.

Fixed Experimental stations
and their activities:

Source of Information: (2)

Code: I001

Name: Centro Regional de Agua Subterranea

Address: C.C. No.166-Domicilio
Av. José I. de la Roza 125-este, 3 Piso,
San Juan,
ARGENTINA

Cable/Telex:

Telephone: 22 53 88, 22 25 95, 22 15 33, 22 85 95.

Name of the Head of
the Organ: Qco. P. Lohn

Title: Director General

No. of Professionals: 49

Main Internal Organization: Directorates of: Hydrogeology; Hydrology;
Hydrochemistry; Accounting and Services.

Subject Areas of Concern: Hydrology. Hydrogeology. Water management. Water
quality. Water chemistry. Water sources.

Specific activities
being carried out: Projects on exploration, exploitation, management and
quality control of hydrologic resources in Mendoza,
San Juan and La Rioja provinces.

New activities planned: International courses.

Publications: Periodicals, final project reports.

Sources of Support: Government and contracts.

Fixed Experimental stations
and their activities:

Source of Information: R

Code: I002

Name: Estación Experimental Agropecuaria San Luis

Address: Casilla 17, 5730 Villa Mercedes
San Luis
ARGENTINA

Cable/Telex:

Telephone: 19 16

Name of the Head of the Organ: Mr. A. Marchi

Title: Director

No. of Professionals: 32

Main Internal Organization: Departments of vegetal production, Animal production, Soils, Pastures and fauna and a laboratory of diagnosis.

Subject Areas of Concern: Soil conservation. Soil management. Animal production
Dry farming. Crops. Crop production. Forage production. Agriculture. Irrigation systems. Ecosystems. Wildlife management.

Specific activities being carried out: Conservation and management of soils. Animal production in arid and semi-arid zones. Grain crops and forage in dry lands. Agriculture under low irrigation. Wildlife management. Natural ecosystems management.

New activities planned:

Publications: Technical reports.

Sources of Support: Government.

Fixed Experimental stations and their activities:

Source of Information: R

Code: I004

Name: Estación Experimental Agropecuaria
INTA Catamarca

Address: Casilla de C.25, 4700 Catamarca,
ARGENTINA

Cable/Telex:

Telephone: 281 92 extn: 0833

Name of the Head of
the Organ: Sr. N. Ansótegui

Title: Director interino

No. of Professionals: 11

Main Internal Organization:

Subject Areas of Concern: Crop production Crop response. Forage production.
Forage plants. Horticulture. Animal production. Rural
development and planning. Seeds.

Specific activities
being carried out: Crop assessment and improvement of fruit trees;
Assessment and improvement of horticulture; Animal
production; Experiments with cereal and forage plants;
Turkey production.

New activities planned:

Publications: Newsletters, booklets and leaflets, articles in local
newspapers.

Sources of Support: Government.

Fixed Experimental stations
and their activities: Itself, (including Agencia de Extensión Rural
Catamarca): Seed technology support, turkey production
and rural home activities.

Source of Information: R

Code: I005

Name: Dirección Regional Patagonia
(INTA)

Address: CC. 277 - 8400
San Carlos de Bariloche
(Río Negro)
ARGENTINA

Cable/Telex:

Telephone: 227 31, 249 90, 249 91

**Name of the Head of
the Organ:** Ing. Agr. M. Cocimano

Title: Regional Director

No. of Professionals: 67

Main Internal Organization: Three experimental stations with programme groups of
Reproduction; Vegetation resources; Genetics; Fauna;
Animal health; Irrigation; Woods; Soils; Extension and
Economics.

Subject Areas of Concern: Natural resources. Animal production. Animal health.
Desertification control. Fauna. Vegetation. Soil
science. Irrigation. Animal genetics. Nature
protection.

**Specific activities
being carried out:** Studies to determine the feasibility of implementing
agricultural production systems compatible with the
economical and rational utilization of the natural
resources.

New activities planned: Project on control of desertification in Patagonia
region.

Publications: Annual report.

Sources of Support: Government.

**Fixed Experimental stations
and their activities:**

- Bariloche: Natural resources, animal production
animal health;
- Trelew: Natural resources, animal production;
- Río Gallegos: Natural resources. animal production.

Source of Information: R

Code: I007

Name: Instituto Nacional de Tecnología Agropecuaria (INTA)

Address: Rivadavia 1439
1033 Buenos Aires
ARGENTINA

Cable/Telex: INTAGRO/17518 INTA AR

Telephone: 37 50 95, 374 50 99

Name of the Head of the Organ: Ing. A. Marzocca

Title: Director Nacional Interino

No. of Professionals: 1400

Main Internal Organization: National Centre for Agricultural Research; Natural Resources Centre

Soil Science Dept..

Subject Areas of Concern: Natural resources. Agriculture. Soil conservation. Soil degradation. Soil management. Land management. Conservation. Nature protection. Mapping and Cartography. Soil maps. Soil sciences.

Specific activities being carried out: National programme for soil conservation and soil management, natural resources, pedology.

New activities planned:

Publications: Soil map, periodical magazine, books, newsletters.

Sources of Support: Government.

Fixed Experimental stations and their activities: 37 experimental stations: Dealing with regional or local problems.

Source of Information: R

Code: I009

Name: Instituto Argentino de Investigaciones de las Zonas Aridas

Address: C.C. 507, Mendoza 5500
ARGENTINA

Cable/Telex: 55438 CYTME/-

Telephone: 24 19 95, 24 17 97

Name of the Head of the Organ: Ing. F.F. Von Wuthenau

Title: Director a Cargo

No. of Professionals: 33

Main Internal Organization: Laboratories of: Flora and Vegetation; Wildlife; Soils and geomorphology; Sociology and economics; Housing and human environment; Watershed management.

Subject Areas of Concern: Natural resources. Desert Ecology. Desert plants. Desert animals. Desert soils. Settlements. Vegetation. Watersheds. Water management. Water harvesting. Forage plants. Forage production. Grasslands. Wildlife management. Weather data. Mapping cartography. Livestock. Runoff.

Specific activities being carried out: Studies on renewable natural resources of the arid zones, ecology and human settlements in drylands.

New activities planned:

Publications: "Deserta" and "Cuadernos Técnicos" (periodicals).

Sources of Support: Consejo Nacional de Investigaciones Cientificas técnicas, Government of Mendoza province, Univ. Nacional de Cuyo.

Fixed Experimental stations and their activities:

- Reserva Ecológica de Nacuñan: Research on flora modification, primary and secondary productivity, vegetation manag., wildlife behaviour, forage plants and production, new plant adaptation;
- Campo Fiscal "El Divisadero": Plans to carry out studies on grasslands and livestock management;
- 21 meteorological stations: Collecting climatic data and preparing specific cartography;
- Cuenca Aluvial Piloto: A pilot station for research on management techniques of watersheds, assessment of erosion process, runoff utilization and natural and eritic vegetation management.

Source of Information: R

Code: I011

Name: Facultad de Agronomía,
Universidad de Buenos Aires

Address: Avda. San Martín 4453,
1417, Buenos Aires
ARGENTINA

Cable/Telex:

Telephone: 52 09 03

Name of the Head of
the Organ: Sr. A. Soriano

Title: Prof. de Fisiología y Ecología

No. of Professionals: 16

Main Internal Organization:

Subject Areas of Concern: Drought tolerance. Crop response. Desertification
control. Soil science.

Specific activities
being carried out: Drought resistance of maize and sunflower; Processes
of desertification in Patagonia.

New activities planned:

Publications: Monographs and technical reports.

Sources of Support: Government through CONICET.

Fixed Experimental stations
and their activities: Activities are carried out at the Instituto de
Investigaciones y Tecnología Agropecuaria - INTA in
Río Mayo, Chubut.

Source of Information: R

Code: I012

Name: Universidad Nacional de Cuyo
Instituto de Geografía

Address: Casilla de Correos 345, Mendoza,
ARGENTINA

Cable/Telex:

Telephone: 23 01 90

Name of the Head of
the Organ: Sr. R.G. Capitanelli

Title: Director

No. of Professionals: 30

Main Internal Organization: Sections of: General geography and Regional geography.

Subject Areas of Concern: Mapping and cartography. Geography. Training and
education in environment. Arid lands management and
development.

Specific activities
being carried out: Teaching and research; Environmental mapping; Study
of problems in dry regions.

New activities planned:

Publications: Boletín de Estudios Geográficos (Geographical Studies
Bulletin).

Sources of Support: Government.

Fixed Experimental stations
and their activities: The institute is located in the arid zone of Argentina
- using its surroundings for research.

Source of Information: R

Code: I015

Name: Centro de Ecología y Recursos Naturales Renovables

Address: Av. V. Sarsfield 299CC 395,
5000 Cordoba
ARGENTINA

Cable/Telex: -/051822 - BUCOR

Telephone: 222 84, 394 73, extn: 49

Name of the Head of
the Organ: Sr. R.N. Luti

Title: Director

No. of Professionals: 30

Main Internal Organization:

Subject Areas of Concern: Grasslands. Ecology. Environment. Environmental
training and education. Plant ecology. Animal ecology.
Climatology. Pastures.

Specific activities
being carried out: Ecological studies on grasslands of Cordoba province;
Teaching ecology at university level; Carrying out
environmental education projects.

New Activities Planned:

Publications: Technical reports and monographs published in various
national and international magazines.

Sources of Support: Government, UNESCO, FAO.

Fixed Experimental stations
and their activities: Three meteorological stations and experimental plots
for pasture research.

Source of Information: R

Code: I016

Name: Instituto de Suelos y Riego
Universidad Nacional de Cuyo

Address: Almirante Brown 500,
Charcras de Coria, 5505 Mendoza,
ARGENTINA

Cable/Telex:

Telephone: (061) 96 04 31

Name of the Head of
the Organ: L. Nijensohn

Title: Director

No. of Professionals: 9

Main Internal Organization: Divisions of: Soils, Agricultural chemistry;
Irrigation.

Subject Areas of Concern: Irrigation systems. Sewage treatment. Soil fertility.
Training and education in soils.

Specific activities
being carried out: Treatment and use of the sewage of Mendoza city;
Phosphoric fertility diagnosis; Irrigation systems.

New activities planned: Irrigation studies and fertilization of potato and
maize cultivations.

Publications: Technical and scientific reports, contributions to the
"Revista de la Facultad de Ciencias Agrarias"

Sources of Support: Government.

Fixed Experimental stations
and their activities:

Source of Information: R

Code: I018

Name: Instituto Nacional de Tecnología Agropecuaria (INTA)
Estación Experimental Ramacaída

Address: C.C.79, San Rafael, Mendoza,
ARGENTINA

Cable/Telex: -/-

Telephone: (54) 0627 21559

Name of the Head of
the Organ: Mr. W. Sinta

Title: Director

No. of Professionals: 6

Main Internal Organization:

Subject Areas of Concern: Rangelands. Ecology. Forage production. Plant
pathology. Plant physiology. Climatology. Mapping and
cartography. Vegetation. Shrubs.

Specific activities
being carried out: Preparation of a vegetation map. Range improvement.
Site identification.

New activities planned: Antoecology studies of salt bushes (Atriplex spp.).

Publications: Newsletters.

Sources of Support: Government.

Fixed Experimental stations
and their activities: -Itself.

Source of Information: R

Code: I019

Name: Estación Experimental Agropecuaria San Juan - INTA

Address: 5427 Villa Aberastain, San Juan,
ARGENTINA

Cable/Telex:

Telephone: 92 10 79

Name of the Head of
the Organ: Sr. E.C. Fontemachi

Title: Director

No. of Professionals: 21

Main Internal Organization: Natural resources (includes soils, drainage and
irrigation), Horticultural production (includes
vegetables, fruit, grapes, seed production),
Vegetation protection and Agro-Economics.

Subject Areas of Concern: Soil management. Irrigation practices. Irrigation
programmes. Climate-vegetal relationships. Plant
growth. Plant breeding. Water table. Water resources.
Seeds. Agriculture. Plant biology. Plant ecology.

Specific activities
being carried out: In natural resources: amendment of the soil cover;
soil management; Evapo-transpiration studies;
Irrigation programmes and practices; Irrigation in
superficial water table areas.

New activities planned:

Publications: Technical reports and monographs.

Sources of Support: Government.

Fixed Experimental stations
and their activities: Itself.

Source of Information: R

Code: I020

Name: Estación Experimental Agropecuaria Santiago
del Estero - INTA

Address: Independencia No.341, C.C.268, Santiago del Estero 4200
ARGENTINA

Cable/Telex:

Telephone: 21 15 60

Name of the Head of
the Organ: Ing. F. Cantos

Title: Director

No. of Professionals: 16

Main Internal Organization: Vegetal prod.; Livestock prod.; Natural resources;
Agricultural extension.

Subject Areas of Concern: Cultivation systems. Crop response. Crop prod.. Dry
farming. Economic plants. Forage grasses. Forage
plants. Forage prod.. Irrigated agric.. Irrigation.
Seeds. Agricultural climatology. Agric.. Cattle.
Grazing. Livestock. Pastoralism. Sheep. Grasses.
Grasslands. Plant adaptation. Animal physiology. Plant
studies. Saline soils. Mapping and cartography. Forest
products. Forestry. Shrubs. Runoff. Catchments.

Specific activities
being carried out: Furthering the improvement and manag. of cultivation
under irrigation. The most important activities
related to drylands are: Utilization of soils by
microcatchment systems; Runoff irrigation, Forage
prod., Fruits and forest cultivation; Vegetation maps;
Study of pasture dynamics; Native species studies; Top
soil productivity; Biomass control and studies;
Vegetation inventories; Diet studies of cattle and
goats; Assessment of new forage plants, seed prod.
studies.

New activities planned: Application of the experimental results of utilization
of saline soils to a productive economic module,
Introduction of exotic forest species, primary prod.
of forage shrubs, determination of pasture areas and
quality of species, wood plants control in
pasturelands, evaluation of new forage plant mixtures
(mob-grazing), evaluation of the climatic conditions
in relation to the growth pastures in Santiago del
Estero province.

Publications: Leaflets, technical bulletins and technical articles
through the Asociación Argentina de Producción Animal
(AAPA), Asociación Argentina de Ecología (ASAE),
Revista Técnica de la EERA, Famaila-INTA and IDIA of
INTA.

Sources of Support: Government, FAO, IICA, UNESCO-MAB and Secretaria de
Ciencia y Técnica (SECYT)

Fixed Experimental stations
and their activities: Itself.

Source of Information: R

Code: I021

Name: Instituto Nacional de Tecnología Agropecuaria EERA Anguil

Address: CC11 6326 Anguil, La Pampa, ARGENTINA

Cable/Telex:

Telephone: (0954) 95057

Name of the Head of the Organ: Ing. Agr. A.E. Bernardon

Title: Director Regional EERA Anguil

No. of Professionals:

Main Internal Organization: Departments of Animal production; Vegetal protection; Ecology; Natural resources; and Extension.

Subject Areas of Concern: Soil management. Soil fertility. Animal health. Animal husbandry. Pest control in animals. Forage and plants. Forage production. Crop production. Crop response. Plant genetics. Plant pathology. Weed control. Pastures. Grasslands.

Specific activities being carried out: Soil management, fertility and conservation,; Animal nutrition and pest control. Genetic improvement of forage plants. Plant pathology.

New activities planned:

Publications: Leaflets, technical bulletin, technical reports.

Sources of Support: Government.

Fixed Experimental stations and their activities:

- EERA Anguil: Soil management, animal nutrition and pest control;
- SEEA Gral Pico: Crop response in trial cultivations;
- Campo Anexo Chacharramenti: pastures and grasslands management, animal husbandry.

Source of Information: R

Code: I022

Name: Instituto Nacional de Tecnología Agropecuaria
EERA Altovalle

Address: C.C.52, 8332 General Roca,
Provincia Rio Negro,
ARGENTINA

Cable/Telex:

Telephone: (0941) 250 17, 250 27, 250 37, 222 48

Name of the Head of
the Organ: Ing. Agr. C. Casamiquela

Title: Director Regional

No. of Professionals: 41

Main Internal Organization: Departments of: Cultivation; Ecology; Plant health;
Economics and extension service.

Subject Areas of Concern: Grazing. Grasslands. Pastoralism. Vegetation. Desert
ecology. Rangelands. Livestock. Irrigation.

Specific activities
being carried out: This experimental station is dedicated to solving
problems of low irrigation crops. Recently, research
activities were started on desert environment,
specifically in vegetation ecology applied to
grasslands used for pastoral activities in arid zones.

New activities planned: Rangeland management, advice to livestock farmers in
semi-arid lands.

Publications: Internal bulletins, newsletters, monographs, etc.

Sources of Support: Government, some support from international
organizations and private institutions.

Fixed Experimental stations
and their activities: Itself.

Source of Information: R

Code: I201

Name: Instituto de Pesquisas Sociais -
Fundação Joaquim Nabuco

Address: Av. 17 de Agosto,
2187, Casa Forte, Recife,
Pernambuco,
BRAZIL

Cable/Telex: JONABUCO/-

Telephone: (081) 268 46 1

Name of the Head of
the Organ: C. Cavalcanti

Title: Superintendente

No. of Professionals: 70

Main Internal Organization: Departments of: Anthropology; Statistics; Geography;
Sociology; Political science; Education; Economics.

Subject Areas of Concern: Drought. Settlements. Appropriate technology. Rural
development and planning.

Specific activities
being carried out: Research on drought in northeastern Brazil;
Population; Resettlements; Projects on drought;
Feasibility studies on technology for small
agriculture in semi-arid zones.

New activities planned: Research reports.

Publications: "Ciência e Trópico", "Boletim de População Emprego e
Renda no Nordeste", social studies reports.

Sources of Support: Government, contracts, donations.

Fixed Experimental stations
and their activities: None.

Source of Information: R

Code: I204

Name: Estação Ecológica do Tapacurá,
Universidade Federal Rural de Pernambuco

Address: Rua D. Manuel de Meduros
S/N - Dois Irmãos
50000 Recife, Pernambuco,
BRAZIL

Cable/Telex:

Telephone: 268 54 47 Extn: 253

Name of the Head of
the Organ: Ms.C. Marinho da Costa Soares

Title: Directora

No. of Professionals: 42

Main Internal Organization: Secretariat and Environmental education.

Subject Areas of Concern: Environmental training and education. Conservation.

Specific activities
being carried out: Programmes of: Environmental education and
Conservation of native species.

New activities planned:

Publications: "Viva a Vida", "Pau Brasil a Arvore Nacional".

Sources of Support: Government.

Fixed Experimental stations
and their activities:

Source of Information: R

Code: I207

Name: Superintendencia do Desenvolvimento do Nordeste
Ministerio do Interior

Address: Pc. Joao Goncalves,
Cidade Universitária 50000
Recife, Pernambuco
BRAZIL

Cable/Telex:

Telephone: 271 10 44 extn: 645

Name of the Head of
the Organ: Sr. R. Carneiro Tavares

Title: Superintendente

No. of Professionals: 1119 (technicians).

Main Internal Organization: Departments of: Natural resources; Development; Human
resources.

Subject Areas of Concern: Forests. Forestry. Forest management. Afforestation.
Soil management and conservation. Water resources.
Aquaculture. Climatology. Human health.

Specific activities
being carried out: Forest inventory, Reafforestation, and management and
conservation of soils; Conservation of the environment.

New activities planned: A natural resources data base.

Publications: Bulletin of natural resources series.

Sources of Support: Government, BID, IBRD

Fixed Experimental stations
and their activities:

Source of Information: R

Code: I300

Name: Departamento de Ciencias Físicas,
Universidad del Norte

Address: Casilla 1280, Antofagasta
CHILE

Cable/Telex:

Telephone: 222040 extn: 211

Name of the Head of
the Organ: Sr. J.E. Araya Valenzuela

Title: Director de Departamento

No. of Professionals: 14

Main Internal Organization:

Subject Areas of Concern: Solar energy. Mist. Climatology. Water harvesting.
Water resources. Rural development and planning.
Appropriate technology. Alternate energy.

Specific activities
being carried out: Assessment of the solar energy resource. Climate
monitoring in arid zones. Obtention of water resources
by non-conventional methods.

New activities planned: Establishment of a self-sufficient community in a zone
of Atacama desert.

Publications: Reports through congress and meeting proceedings.

Sources of Support: Government.

Fixed Experimental stations
and their activities: "Los Nidos": Water obtainment from the Camanchas
(thick fog from the desert).

Source of Information: R

Code: I301

Name: Instituto de Investigaciones Hidrológicas

Address: Casilla 554
Universidad de la Serena
CHILE

Cable/Telex:

Telephone: 211868 extn: 259-260

Name of the Head of the Organ: Mr. E. Rozas

Title: Director

No. of Professionals: 12

Main Internal Organization: Estudios Proyectos.

Subject Areas of Concern: Remote Sensing. Aquifers. Catchments. Water harvesting. Water allocation. Water resources.

Specific activities being carried out: Water catchments. Remote sensing. Aquifer research. Water table analysis.

New activities planned: Drainage from mining areas.

Publications: Through meeting proceedings and publications.

Sources of Support: University resources and contracts.

Fixed Experimental stations and their activities: - El Brikador: Climate monitoring.
- Mina El Brillador: research on rock permeability.

Source of Information: R

Code: I302

Name: Comisión Nacional de Geografía

Address: Av. Vicuña Mackenna 4860
Santiago
CHILE

Cable/Telex:

Telephone: 555 00 58 extn: 47200

Name of the Head of the Organ: R. Borgel Olivares

Title: Presidente

No. of Professionals:

Main Internal Organization: Divisions of: Physical geography; Urban; Rural and regional geography.

Subject Areas of Concern: Alluvions. Geology. Desert soils. Arid lands. Geography. Geomorphology.

Specific activities being carried out: Projects on risk and catastrophe prevention of desert alluvions in the northern region; Assessment of the arid lands in northern Chile and southern region of Peru.

New activities planned: To establish methods of preventing catastrophes in the Central Andes of Chile.

Publications: None.

Sources of Support: Instituto Panamericano de Geografía y Historia.

Fixed Experimental stations and their activities: None.

Source of Information: R

Code: I303

Name: Corporación Nacional Forestal (CONAF)

Address: Cordovez 281 - la Serena
Casilla 568
CHILE

Cable/Telex: -/240001 BOOTH/CL

Telephone:

Name of the Head of the Organ: Sr. G. Soto Alvarez

Title: Director Regional

No. of Professionals: 19

Main Internal Organization: Regional Office.

Subject Areas of Concern: Forestry. Forest management. Forest products
Hydrology. Sand dunes. Soil management. Technolog
transfer. Seeds. Plant adaptation.

Specific activities being carried out: Sand dune fixation. Establishment of forest in
drylands, soil management, plant adaptation.
technology transfer.Plant adaptation.

New activities planned: Dune control, tree planting in drylands, soil
management, introduction of new species, improved
seed collection.

Publications: Various publications related to range and soil
management.

Sources of Support: Government, UNESCO, FAO/NUD.

Fixed Experimental stations and their activities:

Source of Information: R

Code: I304

Name: Instituto de Investigación de Recursos Naturales
CIREN-CORFO

Address: Manuel Montt No.1164
Casilla No.14995, Santiago,
CHILE

Cable/Telex: -/242017 CIREN CL

Telephone: 22 36 641, 22 30 651

Name of the Head of
the Organ: Sr. C. Alvarez Sgolia

Title: Director Ejecutivo

No. of Professionals: 41

Main Internal Organization: Executive Director; Management and Units of: Advisory;
Administration; Production; Marketing; Promotion;
Technical support; and Data processing.

Subject Areas of Concern: Mapping and cartography. Forestry. Natural resources.
Hydrology. Climate. Hydrogeology. Watersheds. Water
pollution. Water management. Remote sensing.

Specific activities
being carried out: Information center for natural resources for the V,
VI, VII, VIII and metropolitan regions.

New activities planned: Establishment of information centers for natural
resources in other regions and up-dating the existing
information of CIREN.

Publications: Project reports, monographs, manuals, directories.

Sources of Support: Government and own resources.

Fixed Experimental stations
and their activities: None.

Source of Information: R

Code: I306

Name: Universidad del Norte

Address: Avda. Angamos 0610
Antofagasta,
CHILE

Cable/Telex: -/ 225097 UNORTE CL

Telephone: 22 20 4

Name of the Head of the Organ: Sr. V. Misetic Yurac

Title: Secretário de Investigaciones, Extensión y Asistencia Técnica

No. of Professionals: 15

Main Internal Organization: Sciences Faculty; Geoscience dept.; Geography section.

Subject Areas of Concern: Natural resources. Environment. Environmental effects. Environmental impact. Settlements. Training and education.

Specific activities being carried out: Workshop activities on interdisciplinary problems related to the management of natural resources and the environmental impact of human settlements on dry lands.

New activities planned: Research and assessment of the degradation of the environment, life habits and traditions of the region.

Publications: Occasional reports and proceedings.

Sources of Support: Government.

Fixed Experimental stations and their activities: None.

Source of Information: R

Code: I307

Name: Departamento de Ingeniería y Suelos

Address: Casilla 1004, Santiago,
CHILE

Cable/Telex:

Telephone: 58 70 42 extn: 235

Name of the Head of
the Organ: Sr. N. Eritsch Fonck

Title: Director

No. of Professionals: 18

Main Internal Organization: Soils and Agronomic engineering.

Subject Areas of Concern: Plant adaptation. Drought. Desert soils. Controlled
environment. Agriculture. Cultivation systems. Desert
plants. Drought tolerance. Plant biology.

Specific activities
being carried out: Research on plant resistance to drought; Desert soil
studies; Research on agricultural practices under
controlled environments.

New activities planned:

Publications: Periodical publications.

Sources of Support: Government, national and international organizations.

Fixed Experimental stations
and their activities: - Antumapu.

Source of Information: R

Code: I308

Name: Laboratorio de Energía Solar (LES)
Universidad Técnica, Fac. Sta. Maria

Address: Casilla 110, Valparaiso,
CHILE

Cable/Telex: -/230338

Telephone: 66 01 76

Name of the Head of
the Organ: Sr. A. Arata

Title: Director

No. of Professionals: 10

Main Internal Organization: Department of Mechanics; Laboratory of Solar Energy.

Subject Areas of Concern: Solar energy. Alternate energy solar applications.
Solar heaters. Wind energy. Training and education.

Specific activities
being carried out: Development and application of solar energy
technologies for isolated arid zones.

New activities planned: Various courses.

Publications: Reports through various magazines and congress
proceedings, "Revista ciencia".

Sources of Support: Government.

Fixed Experimental stations
and their activities: - Laboratory of Solar Energy: Experiments on solar
energy.

Source of Information: R

Code: I310

Name: Corporación de Fomento de la Producción

Address: Moneda No.921, Santiago,
Casilla 2286
CHILE

Cable/Telex: -/240690 CORFO CL

Telephone: 38 05 21

Name of the Head of the Organ: Brigadier General F. Hormazabal

Title: Ministro Vice Prèsidente Ejecutivo

No. of Professionals:

Main Internal Organization: Programme of Arid zones.

Subject Areas of Concern: Natural resources. Plant adaptation. Horticulture. Rural development and planning. Cultivation systems. Economic plants. Dry farming. Crop response.

Specific activities being carried out: Research on horticultural and fruit species in arid zones; Feasibility studies on the industrial use of some of these; Evaluation of jojoba cultivation.

New activities planned: Evaluation of the research carried out and programme implementation on technological transfer to farmers.

Publications: Annual project reports.

Sources of Support: Government.

Fixed Experimental stations and their activities: - Estación Experimental Frutícola Esperalda:
Research and fruit cultivation.

Source of Information: R

Code: I311

Name: Centro de Estudios Espaciales

Address: Casilla 5027
Correo 3, Santiago
CHILE

Cable/Telex: -/240523 CENET CL

Telephone: 555 44 71, 555 34 00

Name of the Head of
the Organ: E. Diaz Araya

Title: Director

No. of Professionals: 80

Main Internal Organization: Departments of: Engineering and development; Project
application and operations.

Subject Areas of Concern: Remote sensing. Mist. Saline water. Mapping and
cartography. Climatology. Environmental impact.
Vegetation.

Specific activities
being carried out: Soil maps. Studies on mist use in arid zones.
Preparation of thermo-maps. Determination of
chlorophyll index in waters.

New activities planned: Saline studies in the Norte Grande. Environmental
impact assessment in the Chungara lake.

Publications: "Boletin Informativo CEE" (biannual), articles in
national magazines.

Sources of Support: Universidad de Chile and project contracts.

Fixed Experimental stations
and their activities: - Estación Exp. del Totoralillo la Serena: Measurement
of water capture from mist, meteorological
monitoring;
- Estación de Rastreo del Peldehu: Reception and
processing of satellite images.

Source of Information: R

Code: I312

Name: Economic Commission for Latin America (ECLA)

Address: Casilla 179-D, Santiago
CHILE

Cable/Telex: UNATIONS SANTIAGO/
340295 (TRANSRADIO), 441054 (ITRT),
240077 (TELEX CHILE)

Telephone: 48 50 51 to 48 50 61

Name of the Head of
the Organ: Mr. N. Gonzalez

Title: Executive Secretary

No. of Professionals:

Main Internal Organization: Divisions of: Statistics; Operations; Economic dev.;
Transport; ECLAC/FAO - Agriculture; International
trade; ECLAC/UNIDO - Industry and social development.

Subject Areas of Concern: Rural development and planning. Arid lands development.

Specific activities
being carried out: To strengthen regional capabilities to develop better
and indigenous alternatives for the use of arid and
semi-arid lands.

New activities planned:

Publications:

Sources of Support:

Fixed Experimental stations
and their activities:

Source of Information: (6)

Code: I313

Name: Universidad de Tarapaca

Address: Casilla 287
18 Septiembre 2222, Arica
CHILE

Cable/Telex: -/221128 UNTAR CL

Telephone: 426 00, 427 00 extn: 125-127

Name of the Head of the Organ: Sr. L. Tapia Iturrieta

Title: Director de Investigación y Desarrollo Científico

No. of Professionals: 250

Main Internal Organization: Natural resources; Plant protection and Plant production sections.

Subject Areas of Concern: Irrigation systems. Agriculture. Horticulture. Plant biology. Plant ecology. Saline soils. Training and education in agriculture and soils. Water requirements in crops. Agronomy. Crop response. Fertilizers.

Specific activities being carried out: Research on soil salinity and irrigation in the Azapa and Lluta Valleys; Research on organic fertilizer effects in saline soils; Agricultural research.

New activities planned:

Publications: Technical reports and monographs. "Revista IDESA" (annual), includes scientific and technical papers.

Sources of Support: Government and own resources.

Fixed Experimental stations and their activities:

- Valle de Azapa K12: Horticulture;
- Valle de Azapa K13: Subtropical fruits;
- Valle de Lluta K31: Horticulture under saline conditions.

Source of Information: R

Code: I703

Name: Centro de Investigaciones Biológicas
de Baja California Sur (CIB)

Address: Casilla 128, La Paz,
Baja California Sur
MEXICO

Cable/Telex:

Telephone: 271 24, 281 44

Name of the Head of
the Organ: Dr. D. Lluch Belda

Title: Director General

No. of Professionals: 35

Main Internal Organization: Division of Terrestrial Biology.

Subject Areas of Concern: Conservation. Biology. Agriculture. Irrigation. Biomes.

Specific activities
being carried out: Establishment of a biosphere reserve; Assessment of
irrigation stoichiometry.

New activities planned:

Publications: Activity report of CIB.

Sources of Support: Government.

Fixed Experimental stations
and their activities: - Sierra de la Laguna, Baja California Sur.

Source of Information: R

Code: I704

Name: Centro de Investigación en Química Aplicada

Address: Apartado Postal 379
Saltillo, COAH., 25000
MEXICO

Cable/Telex: -/381163 CIQAME

Telephone: 213 92, 454 00, 267 68

Name of the Head of the Organ: Dr. L. Sennewald

Title: Director General

No. of Professionals: 65

Main Internal Organization: Directorates of: Administration; Planning and research. The latter has five departments (Engineering, Organic Chemistry, Poline, Vege-physiology and Industrial microbiology).

Subject Areas of Concern: Drought tolerance. Economic plants. Climate-vegetal relationships. Plant breeding. Plant biology. Plant chemistry. Plant growth. Plant physiology. Plant studies. Plant uses. Planting management. Water conservation. Climatology. Microclimatology. Natural resources. Vegetation. Biotechnology.

Specific activities being carried out: Utilization of bio-regulator to increase agriculture productivity and drought resistance; Use of agroplastics to improve productivity and reduce water use; Exploitation of natural renewable resources in relation to natural water anti-corrosive elements and natural fibres. The objective of CIQA is to carry out research and development of technologies to a rational exploitation of natural renewable resources in arid zones and support new agro-industries.

New activities planned: Study of new natural renewable resources for industrial development use.

Publications: Books as: "Guayule: reencuentro en el desierto", "Larrea", "Yuca", "Candelilla", "Natural resources and development in arid regions", "El Ixtle: sistema socio-economico", "Desierto y Ciencia" (annual magazine).

Sources of Support: Government, public and private companies.

Mixed Experimental stations and their activities: Estación experimental (2 ha): Plant physiology, growth regulation of plants and plastic use in agriculture.

Source of Information: R

Code: I707

Name: Comisión Nacional de las Zonas Áridas

Address: Blvd V. Carranza No.1623,
C.P. 25280, Saltillo Coah,
MEXICO

Cable/Telex:

Telephone: 430 40, 432 43

Name of the Head of the Organ: Ing. N.F. Garza Flores

Title: Director General

No. of Professionals: 152

Main Internal Organization: Divisions of: Planning and development; Industry; Finance and administration; Legal and internal auditing; also 16 provincial offices.

Subject Areas of Concern: Agriculture. Irrigation practices. Irrigation programmes. Water harvesting. Water resources. Water utilization. Reservoirs. Rural development and planning. Economic plants. Desert plants. Land use. Plant adaptation.

Specific activities being carried out: Establishment of infrastructure for agricultural development; Research on rain water harvesting; Industrial production of jojoba wax extraction from Candelilla plant; Construction of small dams; Plant adaptation of Quayule, Zavila, etc.; Industrialization of other desert plants.

New activities planned: Co-ordination of new research with universities and other research centres.

Publications: Cactus magazine.

Sources of Support: Government.

Mixed Experimental stations and their activities: - Planta Despalmadora de Yuca (Centre of Yucca Processing);
- Planta Extractora de Cera de Candelilla (Centre for Candelilla wax processing);
- Planta para Aceite de Jojoba (Centre for Jojoba oil production).

Source of Information: R

Code: I709

Name: Instituto SEDUE

Address: Blvd Pipila No.1, Tecamacholco 53950,
Edo. de Mexico
MEXICO

Cable/Telex:

Telephone: 589 45 98

Name of the Head of
the Organ: Arg. C.F. Perez Gavilan

Title: Director General

No. of Professionals: 14

Main Internal Organization: Programming; Scientific development and Extension
Divisions.

Subject Areas of Concern: Desertification control. Rural development and
planning. Irrigation systems. Solar energy. Saline
water. Water utilization. Plant adaptation. Land
reclamation. Biome.

Specific activities
being carried out: Research, development and training on application of
irrigation systems in arid lands; Activity planning
for desertification control.

New activities planned: Preparation of a strategic planning manual on resear
and technological development for arid zones, saline
water utilization research in the Zacatecas desert,
introduction of saline grass-solar energy utilizatio
in arid zones and development of an integrate
programme for the biosphere reserve of El Pinacate.

Publications: Technical reports.

Sources of Support: Government.

Mixed Experimental stations
and their activities: None.

Source of Information: R

Code: I711

Name: Servicio Meteorológico Nacional

Address: Av. Observatorio No.192
11860, Mexico D.F.
MEXICO

Cable/Telex: -/1773331, 1774379 DEGS MME

Telephone: 515 20 90, 515 31 88

Name of the Head of the Organ: Sr. S. Aguilar Anguiano

Title: Director General

No. of Professionals: 19

Main Internal Organization: Sub-directions of Meteorology and Climatology.

Subject Areas of Concern: Meteorology. Climatology. Weather modification.
Hydrology. Agricultural climatology.

Specific activities being carried out: Hydrometeorological studies.

New activities planned: Agrometeorological studies.

Publications: Monthly climatic reports, hydrometeorological studies.

Sources of Support: Government.

Fixed Experimental stations and their activities: None.

Source of Information: R

Code: I713

Name: Universidad Nacional de Mexico
Instituto de Geografía

Address: Area de Investigación Científica,
Ciudad Universitaria Coyoacan,
04510 Mexico D.F.,
MEXICO

Cable/Telex: -/1760155 CICME

Telephone: 548 40 86

Name of the Head of
the Organ: Sra. M.T. Gutierrez de McGregor

Title: Directora

No. of Professionals: 19

Main Internal Organization: Departments of: Physical Geography; Social Geography;
Economic Geography and Support Laboratories.

Subject Areas of Concern: Geography. Climatology. Geomorphology. Drought.
Mapping and Cartography. Land classification. Soil
classification. Soil surveys.

Specific activities
being carried out: Definition of characteristics of Mexican climatic
regions; Climatic studies.

New activities planned: Application of remote sensing technology for climatic
studies.

Publications: Monographs and technical reports published by the
Instituto de Geografía, UNAM and others.

Sources of Support: Government.

Fixed Experimental stations
and their activities: None.

Source of Information: R

Code: I715

Name: Instituto de Ecología, A.C.

Address: A.P. 18-845 Del., Miguel Hidalgo 11800
Mexico D.F.,
MEXICO

Cable/Telex:

Telephone: 271 03 50, 271 04 35, 277 09 60

Name of the Head of the Organ: Sr. P. Reyes Castillo

Title: Director General

No. of Professionals: 47

Main Internal Organization: General directorate; Technical directorate for ecology and behaviour; Technical directorate for terrestrial ecosystems; and Directorate for administration.

Subject Areas of Concern: Ecosystems. Flora. Fauna. Parks and reserves. Animal ecology. Environmental impact. Demography. Natural resources. Vegetation. Desert ecology. Desert soils. Geomorphology. Climate. Desert animals. Biomes.

Specific Activities being carried out: Project research on: Cattle and grassland interactions; Biosystematic ecology and biogeography of various insect groups; Lowland flora; Museology; Soil biology; Ecological studies in the Mapimí biosphere reserve; Integrated study on vegetation, soil and water resources in the Mapimí biosphere reserve oriented to livestock manag.; Biogeography and evolution of the Sonora and Chihuahua deserts; La Michilía biosphere reserve; Manag. of El Pinacate biosphere reserve in the Sonora province; Establ. of the Gomez Farias biosphere reserve; Ecological studies of the Valle de Mexico.

New activities planned:

Publications: "Acta Zoologica Mexicana"(bi-monthly). Reports.

Sources of Support: Government, international organizations and own resources.

Fixed Experimental stations and their activities:

- Laboratorio del Desierto - Mapimí biosphere reserve (in Durango): Research on structure and function of the desert ecosystems;
- La Michilía biosphere reserve (Durango): Management of biotic resources;
- Centro Regional Norte-árido: Environment and natural resources studies, hydrological balance, climate, geomorphology.

Source of Information: R

Code: I717

Name: Instituto de Investigación de Zonas Desérticas

Address: Alvaro Obregon 64
Apartado Postal 458 C.P. 78000
MEXICO

Cable/Telex:

Telephone: 234 61 extn: 145

Name of the Head of the Organ: Biol. N. Vazquez Rosillo

Title: Director

No. of Professionals: 19

Main Internal Organization:

Subject Areas of Concern: Water supply. Fauna. Flora. Mapping and Cartography. Biology. Plant physiology. Plant ecology. Land use. Water pollution. Soil degradation. Meteorology. Erosion. Hydrology.

Specific activities being carried out: Establ. of biological indicators of desertification; Fauna and flora studies; Hydrogeochemical mapping; Active element identification in plants; Water supply; Land use and Water pollution.

New activities planned:

Publications: "Acta Cientifica Potosina", "Contribuciones del IIZD".

Sources of Support: Universidad Autónoma de San Luis Potosi and Government.

Fixed Experimental stations and their activities: - Racho Viejo;
- Ojocaliente;
- La Parada del Zarcido;
- Valle de los Fantasma: Erosion measurements, improvement of natural vegetation meteorological monitoring.

Source of Information: R

Code: I718

Name: Instituto Mexicano de Recursos Naturales
Renovables, A.C.

Address: Dr. Vertiz 724, Narvarte, 03020
Mexico, D.F.
MEXICO

Cable/Telex:

Telephone: 519 16 33

Name of the Head of
the Organ: Dr. E. Beltran

Title: Director

No. of Professionals: Three

Main Internal Organization: Director's office; Library; Research.

Subject Areas of Concern: Natural resources. Ecology. Nature protection.

Specific activities
being carried out: Assessment and management of natural renewable
resources.

New activities planned:

Publications: Books, serial booklets, annual reports.

Sources of Support: Government and non-governmental donors.

Fixed Experimental stations
and their activities: None.

Source of Information: R

Code: I719

Name: Instituto Tecnológico de Estudios Superiores de Monterrey

Address: Sucursal de Correos "J"
Monterrey, N.L. 64849
MEXICO

Cable/Telex: MOTEC/0382975 ITESME

Telephone: 58 20 00 extn. 179 and 436

Name of the Head of the Organ: Dr. J.D. Vega Gutierrez

Title: Director, Division de Ciencias Agropecuarias y Maritimas.

No. of Professionals: 23

Main Internal Organization: Division of agricultural and marine sciences; Department of soils and agricultural engineering; Agricultural graduate programme.

Subject Areas of Concern: Water harvesting. Irrigation. Rainfed agriculture. Agricultural engineering. Training and education in agriculture. Soils and Water. Seeds.

Specific activities being carried out: Rain harvest in Mexican semi-desert zone project; Evaporation control project and irrigation in low rainfall zones.

New activities planned:

Publications: Research report (bi-annual).

Sources of Support: Government (Comisión Nacional de Zonas Aridas), own resources.

Fixed Experimental stations and their activities: Campo agrícola experimental: Teaching and training in agriculture and improvement of seeds.

Source of Information: R

Code: I720

Name: Instituto Mexicano de Tecnologías Apropriadas, S.C.

Address: Apdo. Postal 63-254,
02000 Mexico D.F.
MEXICO

Cable/Telex: -/1773 942 TXPLME (message for: 3-91-18-88)

Telephone: (3) 91 18 88

Name of the Head of
the Organ: Dra. E. Olguin Palacios

Title: Directora General

No. of Professionals: 20

Main Internal Organization: Divisions of Technical dev. and Extension; Depts. of
Biotechnology and Information.

Subject Areas of Concern: Arid land development. Rural development and planning.
Foods. Appropriate technology. Food conservation.
Post-harvest conservation. Training and education in
agriculture. Biotechnology.

Specific activities
being carried out: Development of non-conventional integrated systems for
food production in arid zones, rural community
self-sufficient model in arid zones (Mixteca
-Oaxaqueña).

New activities planned: Implementation of self-sufficient rural communities.

Publications: Monographs, technical reports.

Sources of Support: Contracts with Government and foundation grants (such
as Ford).

Fixed Experimental stations
and their activities: - Centro de Adiestramiento en Ecotecnologías Malinalco:
Training in construction;
- Granja Integral de la Unidad Agrícola Industrial de
la Mujer en Guanajuato: Training farm for women.

Source of Information: R

Code: I721

Name: Centro de Investigaciones Agrícolas del Noroeste

Address: Apdo. Postal 515, cd. Obregon, Sonora
MEXICO

Cable/Telex:

Telephone: 401 01, 503 77, 457 00

Name of the Head of the Organ: Dr. J.A. Valencia Villarreal

Title: Director

No. of Professionals: 127

Main Internal Organization: Office of Director; Experimental agriculture field co-ordinators; Inter-disciplinary research groups.

Subject Areas of Concern: Agriculture. Agronomy. Biology. Biotechnology. Climate. Crop production. Crop response. Crops. Cultivation systems. Economics. Ecology. Farm equipment. Forage plants. Forage production. Plant ecology. Plant genetics.

Specific activities being carried out: Genetic improvement of field crops and forage agriculture. Studies to improve the management of the main forage and field crop productions. Trials and validation of technology transfer in agriculture.

New activities planned: Basic research.

Publications: Scientific reports, technical papers, agricultural manuals, pamphlets for producers, leaflets and special publications.

Sources of Support: Federal Government, Provincial governments of Sonora and Baja California, National Producer-Association, Industrial and philanthropic organizations.

Fixed Experimental stations and their activities: Six fields for agricultural experiments and six sub-stations.

Source of Information: R

Code: I722

Name: Instituto Nacional de Investigaciones Forestales

Address: Av. Progreso No.5,
04110, Mexico D.F.
MEXICO

Cable/Telex: -/177 2241 SARHME

Telephone: 554 06 25, 584 84 35

Name of the Head of the Organ: Dr. M. Caballero Deloya

Title: Director General

No. of Professionals: 350

Main Internal Organization: Zone directorate; Zone research co-ordination units (4); Area subdirectorates; Forest research centres; and forest experimental centres.

Subject Areas of Concern: Forestry. Forests. Forest management.

Specific activities being carried out: Research and experimental development on management, use and extension of the forest resources; National forest inventory.

New activities planned:

Publications: "Ciencia Forestal" (bi-monthly), bulletins, technical reports, brochures.

Sources of Support: Government.

Fixed Experimental stations and their activities:

- CIFNO*: Forest technology research and management.
- CIFONOR: " " " "
- CIFNE*: " " " "
- CIFO: " " " "
- CIFREC: " " " "
- CIFPHS: " " " "
- CIFGO: " " " "
- CIFTROH: " " " "

* Focus mainly on arid zones.

Source of Information: R

Code: I724

Name: Instituto Nacional de Investigaciones Agrícolas

Address: Insurgentes Sur No.694, 10 Piso
Col. del Valle
Mexico 03100, D.F.
MEXICO

Cable/Telex:

Telephone: 687 76 37, 687 76 31

Name of the Head of the Organ: Dr. R. Claveran Alonso

Title: Director General

No. of Professionals: 1220

Main Internal Organization: 12 research centres; 55 experimental fields and programmes on crop and drought problems.

Subject Areas of Concern: Agriculture. Plant genetics. Soil amendments. Soil management. Water management. Cultivation systems. Watershed management. Biotechnology. Crop production. Crop response.

Specific activities being carried out: Genetic improvement; Crops; Soil management; Water management; Cultivation systems; Integrated management of watersheds; Studies of desertification effects in two experimental watersheds.

New activities planned: Biotechnology and improvement of watershed management.

Publications: Technical bulletins, technical magazines, publications for producers and farmers.

Sources of Support: Government.

Fixed Experimental stations and their activities: Several agricultural fields for experimentation.

Source of Information: R

Code: I725

Name: Departamento de Suelos
Universidad Autónoma de Chapingo

Address: Chapingo, Mex., C.P. 56230
MEXICO

Cable/Telex:

Telephone: (5) 85 45 55

Name of the Head of
the Organ: Ing. N. Cerda Ruiz

Title: Jefe

No. of Professionals: 40

Main Internal Organization: Depts. of: Teaching ; Soil Research and Service.

Subject Areas of Concern: Training and education in soils. Soil classification.
Mapping and cartography. Soil fertility. Soil
management and conservation. Soil physics.

Specific activities
being carried out: Teaching in soils focusing on agriculture.

New activities planned:

Publications:

Sources of Support: Government.

Fixed Experimental stations
and their activities:

Source of Information: R

Code: I729

Name: Instituto Nacional de Investigaciones Pecuarias

Address: Calle Victoria No.310,
DESP. 112-115
Chihuahua, CHIH.
MEXICO

Cable/Telex:

Telephone: (141) 6 39 05

Name of the Head of the Organ: Dr. E. J. Sanchez Granillo

Title: Director Regional Zona Norte

No. of Professionals: 100

Main Internal Organization:

Subject Areas of Concern: Grasslands, Grazing systems. Livestock. Animal health. Animal husbandry. Forage production. Economics. Social aspects. Training and education. Animal genetics. Shrubs.

Specific activities being carried out: Basic research on grassland management, livestock nutrition, animal reproduction; Meat and milk production in arid zones; Forage production; Socio-economic studies; Animal genetic research.

New activities planned: Research on grassland amelioration and shrubs and animals to rehabilitate degraded land.

Publications: "Pastizales", "Rancho", "Boletín Ganadero", "Avances de la Investigación en CIPES" and other occasional publications.

Sources of Support: Federal Government. Government of Sonora province. Union Ganadera de Sonora, CONACYT.

Fixed Experimental stations and their activities: - Rancho Experimental "la Campaña" (Chihuahua);
- Centro de Investigaciones Pecuarias del Estado de Sonora;
- Centro de Investigaciones para la Producción Lechera: Research on meat and milk production in arid zones of Mexico.

Source of Information: R

Code: 1735

Name: Universidad Autónoma Agraria Antonio Marro

Address: Buenavista, Saltillo, Coahuila,
MEXICO

Cable/Telex: CIZAME 381128/-

Telephone:

Name of the Head of
the Organ: Sr. J.L. Gutierrez Esquivel

Title: Rector

No. of Professionals: 400

Main Internal Organization: Animal Science Div.: - Depts. of Animal nutrition;
Renewable natural resources and Animal prod.;
Agronomy Div.: - Depts. of Horticulture; Botany;
Phyto-improvement; Forestry and Parasitology;
Engineering Div.: - Depts. of Soils; Irrigation;
Statistics; Basic sciences; Agricultural equipmen
Agro-climatology; Drainage; Agro-physics and
Computer centre; Socio-economics Div.: - Depts. of
Sociology; Economics and Agro-management.

Subject Areas of Concern: Plant breeding. Soil manag.. Soil science.
Irrigation. Natural resources. Animal prod..
Forestry. Social aspects. Economic dev.. Drought.
Dry farming. Drought tolerance. Grasslands.
Pastures. Agronomy. Agric.. Agricultural
climatology.

Specific Activities
being carried out: Training and education on soils, irrigation,
forestry, social sciences and animal sciences;
Research in arid zones covering phytological
improvement, irrigation, renewable natural
resources, animal production, forestry and
socio-economic aspects..

New activities planned: Establishment of seed technology centre.

Publications: Technical reports, "Agraria" scientific magazine.

Sources of Support: Government.

Fixed Experimental stations
and their activities: - At Nora de Guadalupe, Cuencame; Durango, Navida
Nuavoleon; Matchuala, Saulvis Potosi, Ocampo;
Coahuila; Tepalcingo, Moreho, Buenavista;
Saltillo, Coach, Coah: The main activities of
these stations are related to drought- resistan
crops, manag. and improvement of grasslands and
pastures, manag. and appropriate use of natural
resources.

Source of Information: R

Code: I737

Name: Centro de Investigaciones Agrícolas del Golfo Norte

Address: Apdo. Postal 172, Mexico D.F.
MEXICO

Cable/Telex:

Telephone: 40745, 40695, 41045, 41046, 41075

Name of the Head of the Organ: Dr. C.A. Rincón Valdes

Title: Director

No. of Professionals:

Main Internal Organization: Agro-ecological centres; Experimental agriculture field programmes.

Subject Areas of Concern: Phytopathology. Crop production. Cultivation systems. Agriculture. Agronomy. Biotechnology. Ecology. Plant ecology. Plant genetics. Plant biology. Forage production. Soil Science.

Specific activities being carried out: Production technology. Genetic improvement. Cultivation systems. Phytopathology research.

New activities planned:

Publications: Technical pamphlets, scientific reports, producer booklets.

Sources of Support: Government and grants from foundations.

Fixed Experimental stations and their activities:

- Campo Agrícola Experimental Rio Bravo: Research on maize, sorghum, soyabeans, wheat, beans and sunflower;
- Campo Agrícola Experimental Anahuac: Research on soyabeans, wheat, beans, fruit;
- Campo Agrícola Experimental General Teran: Research on fruits, cultivation systems;
- Campo Agrícola Experimental las Adjuntas: Research on maize, sorghum, soyabeans and forage production.

Source of Information: R

Code: I902

Name: Oficina Nacional de Evaluación de Recursos Naturales

Address: Apdo. Postal 4992, Lima
PERU

Cable/Telex:

Telephone: 41 46 06

Name of the Head of the Organ: Sr. C. Zamora Jimeno

Title: Jefe

No. of Professionals: 90

Main Internal Organization: Management; Consultative Groups (National Committee for Natural Resources, Technical Committees); Support Groups (Administration, Cartography, Remote sensing, Information).

Subject Areas of Concern: Water quality. Water resources. Geology. Remote sensing. Natural resources. Environmental impact. Conservation. Degradation. Ecology. Ecosystems. Environment. Environmental impact. Aquatic resources. Arid lands. Desertification control. Fauna surveys. Forestry. Forests. Grasslands. Human factor studies. Hydrology. Land degradation. Land management. Land use. Mapping and cartography. Soil science. Vegetation.

Specific activities being carried out: Up-dating the potential of the natural resources of Peru; Environmental impact assessment in the coastal provinces; Application of remote sensing techniques; Inventory and assessment of water resources and water quality; Environmental planning; Preparation of a map of Peru using remote sensing technology; Ecological control and monitoring the degradation process and desertification of Peru.

New activities planned:

Publications: Monographs and technical reports.

Sources of Support: Government, USAID, DAS, UNEP and Arabic Gulf Fund.

Fixed Experimental stations and their activities: None.

Source of Information: R

Code: I904

Name: Centro de Investigación de Zonas Áridas (CIZA)

Address: Camilo Carrillo 300-A, Lima 11
PERU

Cable/Telex: -/21010 PE-CK

Telephone: 24 05 18, 23 35 88

Name of the Head of the Organ: Dr. C. López-Ocaña

Title: Director

No. of Professionals: 10

Main Internal Organization: Research groups: Ecology; Soils; Climatology; Ancient studies.

Subject Areas of Concern: Plant adaptation. Afforestation. Climatology. Soils Geology. Natural resources. Rural development and planning. Forest management. Mist.

Specific activities being carried out: Exploitation of biotic resources in arid zones; Afforestation with prosopis; Water captation from fog; Introduction of new species to arid lands (jojoba and guayole); Pollen and fossil pollen studies; Archaeology.

New activities planned: Agro-industrial processing of prosopis, guayale and jojoba, afforestation with prosopis at national level.

Publications: "Zonas Áridas" scientific magazine (annual).

Sources of Support: Government, AEO.

Fixed Experimental stations and their activities: - Lima Laboratory;
- Cañete station.

Source of Information: R

Code: K000

Name: Institut National Agronomique

Address: Avenue Pasteur Hacenebadi
El-Harrach
Algiers
ALGERIA

Cable/Telex: -/54802 DZ

Telephone: 76 13 53, 76 13 54, 76 19 87, 76 19 89

Name of the Head of the Organ: Mr. K. M. Salah

Title: Directeur Général

No. of Professionals: 101

Main Internal Organization:

Subject Areas of Concern: Afforestation. Sand dunes. Desertification control.

Specific activities being carried out: Sand dune fixation experiments by mechanical and biological means; Basic research on afforestation.

New activities planned:

Publications: "Memoires de Magisters", "Memoires d'Ingenieur", "Annale de l'Institut National Agronomique".

Sources of Support: Government.

Fixed Experimental stations and their activities: Institut National de Recherches Forestières de Bainem: Research on problems of desertification and afforestation.

Source of Information: R

Code: K001

Name: Unité de Recherche sur les Zones Arides
Laboratoire de Botanique

Address: B.P. 119, Rue Danton,
Algiers,
ALGERIA

Cable/Telex:

Telephone: 63 31 08, 64 92 83

Name of the Head of
the Organ: Mme. le Professeur N. Bounaga

Title: Directeur

No. of Professionals: 28

Main Internal Organization:

Subject Areas of Concern: Plant genetics. Plant studies. Plant biology. Plant
physiology. Nitrogen fixation. Micronutrients. Land
reclamation. Reafforestation. Sand dunes. Soil maps.
Soil microbiology.

Specific activities
being carried out: Protection and amelioration of palm trees; Studies on
rhizome; Plant breeding of Acacia raddiana;
Preservation and regeneration of legumes of sahelian
species; Soil microbiology studies; Preparation of
soil maps; Feasibility studies on the use of wastes
from hydrocarbon products such as fertilizers.

New activities planned: Development of an integrated centre for research on
other areas as hydrology, sociology, medicine, etc.

Publications: Monographs, technical reports and scientific papers in
various scientific journals.

Sources of Support: Government.

Fixed Experimental stations
and their activities: - Beni-abbes: Research on palms and dates;
- El-Golea: Activities on dune fixation, palms and
dates.

Source of Information: R

Code: K002

Name: C. R. B. T.

Address: B.P. 812, Alger-Gare,
ALGERIA

Cable/Telex:

Telephone: 64 61 22

Name of the Head of
the Organ: S. Djebaili

Title: Directeur

No. of Professionals: 20

Main Internal Organization:

Subject Areas of Concern: Phytogeography. Vegetation. Ecosystems. Environment.
Desert ecology. Mapping and cartography. Arid lands
management and development. Natural resources.

Specific activities
being carried out: Inventory of vegetation and ecosystems; Evaluations
and cartography of ecological resources in arid zones.

New activities planned:

Publications: "Biocenoses" review.

Sources of Support: Government and contracts.

Fixed Experimental stations
and their activities: Three experimental stations in arid zones.

Source of Information: R

Code: K004

Name: Institut National de la Recherche
Agronomique d'Algérie

Address: B.P. 15, El-Annaser,
Algiers,
ALGERIA

Cable/Telex:

Telephone:

Name of the Head of
the Organ: Mr. K. Ramdane

Title: Directeur

No. of Professionals: 25

Main Internal Organization: Headquarters in Algiers and 12 research stations.

Subject Areas of Concern: Agriculture. Agronomy. Arid lands planning and
development. Dry farming. Plant genetics.

Specific activities
being carried out: Agricultural development and research in arid zones;
Utilization of plastic materials in Sahelian
agriculture; Plant genetics.

New activities planned:

Publications: "Revue de la Recherche Agronomique".

Sources of Support: Government.

Fixed Experimental stations
and their activities: 13 Stations, three of them in arid zones.

Source of Information: R

Code: K005

Name: Institut National de Recherche Forestière - INRF

Address: B.P. 37, Cheraga,
Algiers
ALGERIA

Cable/Telex:

Telephone: 84 97 90, 84 87 92

Name of the Head of the Organ: Dr. B. Kadik

Title: Directeur Général

No. of Professionals:

Main Internal Organization: Four scientific departments.

Subject Areas of Concern: Forestry. Soil Conservation. Erosion Control. Forest management. Rangeland management. Pest management and control. Sand control. Greenbelts. Shrubs.

Specific activities being carried out: Programmes on: plant production, desertification control, sand encroachment control, tree planting, rangeland improvement, diversification of species, forest protection against pests; Studies on the use of plastic sheets and local materials for sand dune fixation in the Hassi Bahbah region; Forest preservation; greenbelt studies for dune fixation on 12,000 ha irrigated area in Becher region.

New activities planned:

Publications: "Bulletin Technique Forestière" (quarterly).

Sources of Support: Government, subsidies.

Fixed Experimental stations and their activities:

- Medea: Erosion control;
- Djeffer: Desertification combat;
- Elkala: Fast growing forest species and shrubs;
- Sidi Bel Abbes: Silviculture.

Source of Information: R

Code: K006

Name: Ministère de l'Hydraulique, de l'Environnement
et des Forêts

Address: Kuoba, Algiers,
ALGERIA

Cable/Telex: -/54146 or 54160

Telephone: 58 57 58

Name of the Head of
the Organ:

Title: Le Vice Ministre Chargé de l'Environnement
et des Forêts

No. of Professionals: 30

Main Internal Organization:

Subject Areas of Concern: Soil erosion. Afforestation. Sand control. Sand dunes.
Plant adaptation. Rural development and planning.
Pastoralism.

Specific activities
being carried out: Afforestation; Combating sand movement; Land
development; Pastoral improvement.

New activities planned:

Publications: Bulletin of the INRF (monthly).

Sources of Support: Government.

Fixed Experimental stations
and their activities: - Institut National des Recherches Forestières;
- Djelfa: Sand dune fixation and species
diversification;
- Medea: Soil erosion studies.

Source of Information: R

Code: K201

Name: Direction de l'Agriculture

Address: B.P.58, Porto-Novo,
BENIN

Cable/Telex:

Telephone: 21 32 90, 21 32 93

Name of the Head of
the Organ: P. Kakanakou

Title: Ingénieur du Developpement Rural

No. of Professionals: 22

Main Internal Organization: One national direction and four technical services.

Subject Areas of Concern: Agriculture. Vegetation. Rural Development and
planning.

Specific activities
being carried out: Vegetation protection; Rural development through
Regional Action Centres for Rural Dev. (CARDER);
Amendment of vegetation in the urban areas.

New activities planned:

Publications: None.

Sources of Support: Government.

Fixed Experimental stations
and their activities: None.

Source of Information: R

Code: K202

Name: Direction des Eaux et Forêts

Address: B.P. 393, Cotonou,
BENIN

Cable/Telex:

Telephone: 33 06 62, 33 06 67

Name of the Head of
the Organ: A.L. Akpado

Title: Ingénieur des Eaux et Forêts

No. of Professionals: 35

Main Internal Organization: Direction; Sub-direction; Four services; Six
inspectorates and 125 Forestry sites.

Subject Areas of Concern: Afforestation. Reafforestation. Forestry. Soil
conservation. Forest plant adaptation.

Specific activities
being carried out: Reafforestation; Fighting forest fires; Soil
protection and river banks; Monitoring tropical
forests.

New activities planned: Reafforestation and fighting forest fires.

Publications: None.

Sources of Support: Government, African Development Bank, UNSO.

Fixed Experimental stations
and their activities: - Unité de Recherches Forestières: Research on new
species adaptation to diverse ecological sites;
- Direction de la Recherche Agronomique: Preparation
a pedological map of the country.

Source of Information: (R)

Code: K203

Name: Direction de la Recherche Forestière,
Department de la Recherche Agronomique

Address: B.P. 06707, Cotonou,
BENIN

Cable/Telex:

Telephone:

Name of the Head of
the Organ: Mr. A. Agbahungba

Title: Directeur

No. of Professionals:

Main Internal Organization:

Subject Areas of Concern: Forestry. Soil science. Trees. Agroforestry. Fuelwood.

Specific activities
being carried out: Biology of tree species (germination, establishment of
fast-growing species, fuelwood). Soil degradation.
Agroforestry systems. Improvement of charcoal
production.

New activities planned:

Publications:

Sources of Support:

Fixed Experimental stations
and their activities:

Source of Information: (1)

Code: K204

Name: Faculté des Sciences Agronomiques,
Université Nationale du Bénin

Address: B.P. 526, Cotonou,
BENIN

Cable/Telex:

Telephone:

Name of the Head of
the Organ: M. Adamou-N'diaye

Title: Doyen

No. of Professionals: 31

Main Internal Organization:

Subject Areas of Concern: Vegetation. Forestry. Agroforestry. Pastoralism.
Environment. Natural resources. Conservation.
Deforestation. Desertification. Biomes. Nature
protection.

Specific activities
being carried out: Studies on the vegetation cover; Conservation of
natural resources; Environment; Studies on
agro-silvo-pastoral equilibrium; Deforestation and
desertification.

New activities planned: Nature studies (utilization, conservation).

Publications: "Liste de Memoires" and research reports.

Sources of Support: Technical co-operation from Belgium, MAP-UNESCO, FED
project .

Fixed Experimental stations
and their activities: - Cotonou;
- Monts Konffé;
- Pendjary (Biosphere reserve).

Source of Information: R

Code: K207

Name: Direction Nationale des Eaux et Forêts du
Ministère du Développement Rural et l'Action
Coopérative

Address: B.P.393, Cotonou,
BENIN

Cable/Telex:

Telephone: 33 06 62

Name of the Head of
the Organ: L. Akpado

Title: Directeur

No. of Professionals: 36

Main Internal Organization: Director's office; Forest services; Studies and
development; Nature protection and hunting; Forest
legislation; Six provincial inspectorates.

Subject Areas of Concern: Forest management. Soil conservation. Water conserv..
Parks and reserves. Forests. Reservoirs.

Specific activities
being carried out: Protection of reservoirs; Development of communal
forests within zones threatened by desertification.

New activities planned: Project to combat rangeland fires in northern Benin,
reafforestation project of 5000 ha in the northwestern
region of the country.

Publications: None.

Sources of Support: Government, UNDP, UNSO, UNEP, FED, WFP.

Fixed Experimental stations
and their activities: - Unité de Recherche Forestière: basic research on
diverse ecosystems in Benin;
- Station Agro-pédo: pedological studies.

Source of Information: R

Code: K208

Name: Cellule de Surveillance des Ecosystemes
des Terrains du Parcours,
Ministère des Fermes d'Etat,
de l'Elevage et de la Pêche

Address: B.P. 06711, Cotonou,
BENIN

Cable/Telex:

Telephone:

Name of the Head of
the Organ: Mr. L. Okio (focal point)

Title:

No. of Professionals:

Main Internal Organization:

Subject Areas of Concern: Remote sensing. Ecosystems. Rangelands. Environment.

Specific activities
being carried out: Satellite surveys of ecosystem modification.

New activities planned:

Publications:

Sources of Support:

Fixed Experimental stations
and their activities:

Source of Information: (1)

Code: K209

Name: Direction du Génie Rural

Address: B.P. 268, Porto-Novo,
BENIN

Cable/Telex:

Telephone: 21 32 09

Name of the Head of
the Organ: T.J. Toni

Title: Directeur

No. of Professionals: 16

Main Internal Organization:

Subject Areas of Concern: Rural development and planning. Agricultural
mechanization. Water requirements in crops. Desert
ecology. Water management. Reservoirs. Pastoralism.
Agriculture.

Specific activities
being carried out: Reinforcement of the workshops of the Regional Action
Centres for Rural Development (CARDER).

New activities planned: Reconstruction studies of water reservoirs in the
country, construction of reservoirs for agropastoral
rehabilitation of rice field perimeters.

Publications:

Sources of Support: Government.

Fixed Experimental stations
and their activities:

Source of Information: R

Code: K300

Name: Botswana Agricultural College

Address: P.B. 0027, Gaborone,
BOTSWANA

Cable/Telex: AGRICOLA/-

Telephone: 523 81 to 523 84

Name of the Head of
the Organ: Mr. E.J. Kemsley

Title: Principal

No. of Professionals: 28

Main Internal Organization:

Subject Areas of Concern: Agriculture. Rural development and planning. Training
and education. Animal health. Social aspects. Crop
production.

Specific activities
being carried out: Training in agriculture and animal health, social work
and community development (diplomas and certificates).

New activities planned: BSc. degree in general agriculture.

Publications: "Boachem" student magazine.

Sources of Support: Government and aid agencies.

Fixed Experimental stations
and their activities: Agricultural Research station with HQ at Sebele and
sub-stations in other parts of the country: crop
production and animal research.

Source of Information: R

Code: K302

Name: Botswana Technology Centre

Address: P.B. 0082, Gaborone,
BOTSWANA

Cable/Telex: Develop/-

Telephone: 4161/2/3 or 2829

Name of the Head of
the Organ: Mr. A.T. Aarsse

Title: Managing Director

No. of Professionals: 9

Main Internal Organization: Engineering service; Information service;
Administration.

Subject Areas of Concern: Appropriate technology. Water harvesting. Renewable
energy. Catchments.

Specific activities
being carried out: Design of water pumping devices; Rain-water catchment
and use of renewable energy; Preparation of technical
papers.

New activities planned: New technology projects on transport, food, small
industries and manufacture of toys.

Publications: Technical papers (quarterly).

Sources of Support: Government and donor agencies.

Fixed Experimental stations
and their activities:

Source of Information: R

Code: K303

Name: Animal Production Research Unit

Address: P.B. 0033, Gaborone,
BOTSWANA

Cable/Telex: RESEARCH/-

Telephone: 523 81

Name of the Head of
the Organ: B.L. Addy

Title: Chief Animal Production and Range Research Officer

No. of Professionals: 11

Main Internal Organization:

Subject Areas of Concern: Livestock. Animal production. Range management.
Grazing. Rangelands. Cattle. Grazing systems. Weed
control.

Specific activities
being carried out: Grazing systems; Bush control; Control of poisonous
plants; Dairy production; Beef cattle and small
livestock productivity.

New activities planned: Range restoration.

Publications: Annual reports.

Sources of Support: Government, UNDP, ODA, IDRC.

Fixed Experimental stations
and their activities: - Sebele, Gaborone HQ. Laboratory facilities and 20
ranches and grazing units in various parts of Botswana

Source of Information: R

Code: K304

Name: Dept. of Environmental Science
University of Botswana

Address: P.B. 0022, Gaborone,
BOTSWANA

Cable/Telex: -/2429 BD

Telephone: 511 51

Name of the Head of
the Organ: Prof. H.J. Cooke

Title: Head of Department

No. of Professionals: 6

Main Internal Organization: N/A

Subject Areas of Concern: Training and education. Drought. Soil degradation
Remote sensing.

Specific activities
being carried out: Teaching and research on soil degradation; Drought
monitoring; Land form evolution.

New activities planned: Use of landsat to map and monitor areas of
environmental degradation.

Publications: Monographs, books.

Sources of Support: Government, CIDA, private sector of Botswana.

Fixed Experimental stations
and their activities: None.

Source of Information: R

Code: K305

Name: Veld Products Research

Address: P.O. Box 202, Gaborone,
BOTSWANA

Cable/Telex: -/2747

Telephone: 26 23

Name of the Head of
the Organ: Mr. F.W. Taylor

Title: Consultant

No. of Professionals:

Main Internal Organization:

Subject Areas of Concern: Catchments. Plant production. Non-arable agriculture.
Plant use.

Specific activities
being carried out: Microcatchments for fruit and nut trees.

New activities planned:

Publications:

Sources of Support: Government, donor agencies, churches.

Fixed Experimental stations
and their activities: At Gabane village: Microcatchments for fruit and nut
trees, research on indigenous resources for commercial
use.

Source of Information: R

Code: K306

Name: Forestry Division, Ministry of Agriculture

Address: P.B. 003, Gaborone,
BOTSWANA

Cable/Telex:

Telephone: 511 71

Name of the Head of
the Organ: E.K. Maloiso

Title: Chief of Land Utilization

No. of Professionals: 6

Main Internal Organization:

Subject Areas of Concern: Planting management. Wood technology. Wood management.
Forestry. Agroforestry.

Specific activities
being carried out: Tree planting in two major areas, 50 ha of Eucalyptus
comadulensis and E. sidroxylon and 150 ha of
E. mechanai and E. territicon per annum.

New activities planned:

Publications:

Sources of Support:

Fixed Experimental stations
and their activities:

Source of Information: (1)

Code: K307

Name: Kweneng Rural Development Association

Address: P.B. 007, Molepolole,
BOTSWANA

Cable/Telex:

Telephone: 385/6/7

Name of the Head of
the Organ: Mr. M. Moorad

Title: General Manager

No. of Professionals:

Main Internal Organization: Central administration; Units of: Agricultural suppl:
store; Educational center; Fresh produce store;
Building supplies store; Carpentry training; Building
training; Production.

Subject Areas of Concern: Forestry. Forest products. Training and education in
agriculture. Building design. Forest management.

Specific activities
being carried out: Tree planting; Training and education; Building.

New activities planned: Planning for a four-year harvest of four main
plantations.

Publications:

Sources of Support: Donor agencies, Government and non-governmental
organizations.

Fixed Experimental stations
and their activities:

Source of Information: R

Code: K308

Name: Div. of Land Utilization

Address: P.B. 003, Gaborone,
BOTSWANA

Cable/Telex:

Telephone: 51171

Name of the Head of
the Organ: E. Maloiso

Title: Chief Land Utilisation Officer

No. of Professionals:

Main Internal Organization:

Subject Areas of Concern: Forestry. Land management. Soil surveys. Rangelands.
Ecology. Land conservation. Mapping and cartography.
Drought. Grazing. Land surveys. Planting management.
Water utilization. Sand dunes.

Specific activities
being carried out: Drought relief project; Well and pan digging and
water reticulation to grazing areas; Establishment of
plantations; Sand dune stabilization; Rangeland
conditions survey; Grazing carrying capacity studies.

New activities planned:

Publications:

Sources of Support: Government.

Fixed Experimental stations
and their activities:

Source of Information: R

Code: K309

Name: Mahalapye Development Trust

Address: P.O. Box 291, Mahalapye,
BOTSWANA

Cable/Telex:

Telephone: 256

Name of the Head of
the Organ: Mr. D.M. Mokalake

Title Secretary

No. of Professionals: 10

Main Internal Organization:

Subject Areas of Concern: Health; Training and education; Forestry; Rural
development and planning; Dry farming; Livestock.

Specific activities
being carried out: Co-ordinating farming activities; Promotion of rural
industries; Preventive health care and education.

New activities planned: Food and nutrition programme.

Publications: None.

Sources of Support: CUSO, UCCS, USA - Ambassador Self Help Fund, Peace
Corps.

Fixed Experimental stations
and their activities: None.

Source of Information: R

Code: K310

Name: Range Ecology Unit
Ministry of Agriculture

Address: P.B. 003, Gaborone,
BOTSWANA

Cable/Telex:

Telephone: 51171 ext. 173

Name of the Head of
the Organ: Mr. R.M. Kwerepe

Title: Range Ecologist

No. of Professionals: Three

Main Internal Organization:

Subject Areas of Concern: Overgrazing. Sand dunes. Rangeland management.
plant adaptation.

Specific activities
being carried out: Sand dune stabilization; Introduction of plant
species; Range land management and extension;
Environmental degradation awareness.

New activities planned: Rangeland monitoring, primary production studies.

Publications:

Sources of Support: Government.

Fixed Experimental stations
and their activities: At Bokspits and Gaborone.

Source of Information: R

Code: K311

Name: Land Utilization Division
Ministry of Agriculture

Address P.B. 003, Gaborone,
BOTSWANA

Cable/Telex:

Telephone: 51171

Name of the Head of
the Organ: Mr. E.K. Maloiso

Title: Chief Land Utilization Officer

No. of Professionals: Three

Main Internal Organization: Range Ecology Unit.

Subject Areas of Concern: Sand dunes. Land reclamation. Overgrazing. Rangelands.
Livestock.

Specific activities
being carried out: Sand dune stabilization; Reclamation of overgrazed
areas; Range monitoring.

New activities planned:

Publications: Periodicals.

Sources of Support: Government.

Fixed Experimental stations
and their activities: Animal Production Research Unit: Livestock and Range
research.

Source of Information: R

Code: K313

Name: Interministerial Drought Committee

Address: Ministry of Finance
P.B. 008, Gaborone,
BOTSWANA

Cable/Telex: -/2401 BD

Telephone: 557 15, 552 87

Name of the Head of
the Organ: Mrs. E. Mathe

Title: Coordinator of Rural Development

No. of Professionals: Three

Main Internal Organization: Department of Food Resources; District Drought
Committees.

Subject Areas of Concern: Drought. Relief activities. Food supply. Agriculture.
Social aspects.

Specific activities
being carried out: Supplementary feeding to population. Public work
programmes. Agriculture and water relief programmes.

New activities planned: Finalization of a medium-term national food strategy.

Publications: Monthly early warning reports on drought conditions.

Sources of Support: Government, UN agencies, international donors.

Fixed Experimental stations
and their activities:

Source of Information: R

Code: K315

Name: Department of Water Affairs

Address: P.B. 0029, Gaborone,
BOTSWANA

Cable/Telex: WATER/2557 WATER BD

Telephone: 52241/2/3

Name of the Head of
the Organ: G.M. Quraishi

Title: Director

No. of Professionals:

Main Internal Organization:

Subject Areas of Concern: Water resources. Water supply. Water pollution.
Training and education. Hydrology. Catchments. Water
allocation. Water harvesting. Water management.
Meteorology.

Specific activities
being carried out: Hydrology data collection; Borehole siting and
drilling; Design, construction and maintenance of
village water supply schemes.

New activities planned: Biological control of aquatic weeds, Okavango water
resources development, catchments studies.

Publications: None.

Sources of Support: Government and other donor governments.

Fixed Experimental stations
and their activities: Hydrometeorological networks to measure stream flow,
rainfall, wind speed and direction, evaporation, and
temperatures.

Source of Information: R

Code: K317

Name: National Institute of Development and Documentation, University of Botswana

Address: P.B. 0022, Gaborone, BOTSWANA

Cable/Telex: -/2429 BD

Telephone: 511 55 extn. 218

Name of the Head of the Organ: L.D. Ngcongeo

Title: Director

No. of Professionals: Five

Main Internal Organization:

Subject Areas of Concern: Rural development and planning. Cattle. Economic development. Agriculture. Training and education in agriculture. Human health. Settlements. Migration.

Specific activities being carried out: Rural development with emphasis on cattle sector reforms; Development of the traditional economy; Crop research and farming activities; Monitoring and evaluation of education particularly in production, health and nutrition; Settlements and migration; Development of a documentation section.

New activities planned:

Publications: Working paper series, research notes series, seminar proceeding series, working bibliography series and a newsletter.

Sources of Support: Government and donor agencies.

Fixed Experimental stations and their activities:

Source of Information: (1)

Code: K318

Name: Pelegano Village Industries

Address: P.O. Box 464, Gaborone,
BOTSWANA

Cable/Telex:

Telephone:

Name of the Head of
the Organ: F.W. Taylor

Title: Director

No. of Professionals: 5

Main Internal Organization:

Subject Areas of Concern: Appropriate technology. Energy. Water resources.
Dry-farming. Agriculture. Solar energy. Animal work
and traction. Food conservation. Catchments. Water
storage. Domestic animals. Water harvesting. Wind
power.

Specific activities
being carried out: Advice and assistance on small scale industries
notably in handicrafts, textiles and food processing
sectors; Innovations in appropriate technology
including ox-carts, hand carts, windmills, water
catchment and storage systems, solar ovens and
heaters; Dryland orchard farming.

New activities planned:

Publications:

Sources of Support:

Fixed Experimental stations
and their activities:

Source of Information: (1)

Code: K320

Name: Forest Association of Botswana

Address: P.O. Box 2088, Gaborone,
BOTSWANA

Cable/Telex: -/2435 BD

Telephone: 4431/2

Name of the Head of
the Organ: Mr. D. Inger

Title: President

No. of Professionals: Only volunteers.

Main Internal Organization:

Subject Areas of Concern: Shrubs. Forestry. Forest management. Wood management.
Agroforestry.

Specific activities
being carried out: Promoting forest industries and local scientific
research in forestry; Assisting organizations involved
in tree planting; Protection of trees and shrubs.

New activities planned: A national tree planting day.

Publications: Annual journal, a book for school children.

Sources of Support: NORAD, British High Commission, Biot Fur Die Welt.

Fixed Experimental stations
and their activities: - Kanya: Wood lots;
- Selebi Pikwe: Agroforestry;
- Molepolole: Nursery.

Source of Information: R

Code: K400

Name: Centre de Recherches Forestières

Address: B.P. 2102, Yaounde,
CAMEROON

Cable/Telex:

Telephone:

Name of the Head of the Organ: A.M. Maimo

Title: Chef de Centre

No. of Professionals: Three (in the arid lands).

Main Internal Organization:

Subject Areas of Concern: Forestry. Soil management. Agroforestry. Forest management.

Specific activities being carried out: Selection of inter and intra-specific essays of work on soil and forests; Studies of water-soil-plant relationships; Agroforestry and management of natural forests.

New activities planned:

Publications: Activity reports, technical reports.

Sources of Support: Government, French co-operation and World Bank.

Fixed Experimental stations and their activities: Maroua: as above.

Source of Information: R

Code: K401

Name: Centre de Recherches Géologiques
et Minières

Address: B.P. 333, Garoua,
CAMEROON

Cable/Telex:

Telephone: 27 14 82, 27 15 61

Name of the Head of
the Organ: N.J. Blaise

Title: Chef de Centre

No. of Professionals: 10

Main Internal Organization:

Subject Areas of Concern: Mapping and cartography. Geology. Geochemical
explorations. Geomorphology.

Specific activities
being carried out: Geological studies and maps of certain regions of
Cameroon; Study of the Pan-African origin in northern
Cameroon; Studies of bauxite deposits.

New activities planned:

Publications: Geological bulletins, "Memoires", and theses.

Sources of Support: Government.

Fixed Experimental stations
and their activities:

Source of Information: R

Code: K404

Name: Institut de la Recherche Agronomique (IRA)

Address: B.P. 2123, Yaounde-Messa,
CAMEROON

Cable/Telex: -/1140 KN

Telephone: 23 26 44

Name of the Head of
the Organ: Dr. J.P. Ekebil

Title: Directeur

No. of Professionals:

Main Internal Organization: Within Ministère de l'Enseignement Supérieur et de la
Recherche Scientifique.

Subject Areas of Concern: Water resources. Soil science. Erosion. Hydrology.
Hydrogeology. Agronomy.

Specific activities
being carried out: Studies of water and soil. Hydraulic studies in
northern Cameroon.

New activities planned:

Publications: Activity reports.

Sources of Support: Government and International Organizations (USAID,
World Bank, CIRAD).

Fixed Experimental stations
and their activities:

- Marona B.P. 33;
- Njombe B.P. 13;
- Ekona P.M.B. 25, Buea;
- Nkolbisson B.P. 2067, Yaounde-Messa;
- Centre National des Sols B.P. 5578, Yaounde;
- Centre de Recherches Forestières de Nkolbisson,
B.P. 2102, Yaounde.

Source of Information: R

Code: K405

Name: Institut de Recherche sur Techniques d'Industrie,
de Sol et de Sous-sol (IRTISS)

Address: B.P. 4110, Yaounde,
CAMEROON

Cable/Telex:

Telephone:

Name of the Head of
the Organ: D. Soba

Title: Directeur

No. of Professionals: 42

Main Internal Organization:

Subject Areas of Concern: Agricultural mechanization. Hydrology. Energy.
geology. Soil science. Agricultural engineering.

Specific activities
being carried out: Research and development of mechanical agriculture;
Hydrology; Geology and Energy.

New activities planned:

Publications: "Cahiers de l'IRTISS".

Sources of Support:

Fixed Experimental stations
and their activities:

Source of Information: (2)

Code: K407

Name: Institute of Animal Research - IRZ

Address: P.B. 1457, Yaounde,
CAMEROON

Cable/Telex:

Telephone:

Name of the Head of the Organ: Dr. E.D. Tebong

Title: Director

No. of Professionals: 55

Main Internal Organization: Directorate; Two centres; Seven stations; four sub-stations.

Subject Areas of Concern: Pastures. Grasslands. Grasses. Grazing systems. Drought tolerance. Desert grasslands. Plant adaptation. Leguminosae. Seeds. Livestock. Forage grasses. Forage plants. Forage production. Plant breeding. Forage supply. Overgrazing. Training and education. Land reclamation.

Specific activities being carried out: Research on improvement of natural and degraded pasturelands; Controlled grazing and determination of optimum pasture carrying capacities of different types of pasturelands; Identification, collection, inventory, prod. and multiplication studies on local drought-resistant pasture plant species; Adaptive research on drought-resistant grasses and legume species; Multiplication and dissemination of seeds of adapted species or varieties for farmers; Conservation of forage for livestock fodder; Utilization of agro-industrial by-products and crop residues in animal feeding.

New activities planned: Further studies on the exploitation and dissemination of drought resistant pasture grass/legume species, breeding and multiplication of new drought-resistant species for pasture and fodder production, effective control of overgrazing, training farmers on better use of pastures, elimination or control of bush fires.

Publications: IRZ annual report, "Mesres Review Science and Technology".

Sources of Support: Government.

Fixed Experimental stations and their activities:

- Wakwa Station, Adamawa: Agrostology, beef and dairy research;
- Yagoua (extreme North): Agrostology, sheep and goats, endangered beef cattle;
- Garoua (north): Agrostology, sheep;
- Bambui (north-west): Agrostology, dairy and beef;
- Mankon (north west): Agrostology, sheep, goats, poultry and rabbits;
- Nkolbisson (centre): Agrostology, sheep, goats, poultry and pigs;
- Bertoua (east): Agrostology, cattle, sheep and goats;
- Bangangte (west): Agrostology, cattle, sheep and goats.

Source of Information: R

Code: K409

Name: Institut de Recherches Géologiques et Minières

Address: B.P. 4110, Yaounde,
CAMEROON

Cable/Telex:

Telephone: 23 00 08

Name of the Head of
the Organ: S. Djallo

Title: Maître de Recherches

No. of Professionals: 31

Main Internal Organization: Four operational structures.

Subject Areas of Concern: Hydrology. Rainfall. Geology. Mapping and cartography.
Energy. Alternate energy. Desertification control.

Specific activities
being carried out: All actions related to desertification combat,
hydrology and energy in northern Cameroon.

New activities planned: Extension of the research programmes on hydrology,
geology and energy.

Publications: Annual hydrological report, annual solar metric
report, technical reports.

Sources of Support: Government.

Fixed Experimental stations
and their activities: - Centre de Recherches Hydrologiques de Yaounde;
- Laboratoire de Recherches Energetiques de Yaounde.

Source of Information: R

Code: K412

Name: Office National de la Recherche
Scientifique et Technique

Address: B.P. 1457, Yaounde,
CAMEROON

Cable/Telex:

Telephone:

Name of the Head of
the Organ:

Title: Directeur Général

No. of Professionals:

Main Internal Organization:

Subject Areas of Concern: Soil science. Hydrology. Demography. Economic dev..
Geography. Vegetation. Entomology. Human health.
Human factor studies.

Specific activities
being carried out:

New activities planned:

Publications: "Cahiers" (quarterly), "Recherches et Etudes
Camerounaises".

Sources of Support:

Fixed Experimental stations
and their activities:

Source of Information: (1)

Code: K414

Name: Association des Clubs des Amis de la Nature

Address: B.P. 271, Garona,
CAMEROON

Cable/Telex: ACAN BP 271 GAROUA/-

Telephone: 27 10 25, 27 11 25

Name of the Head of
the Organ: Dr. A.A. Aslo

Title:

No. of Professionals: 2

Main Internal Organization:

Subject Areas of Concern: Forests. Environment. Conservation. Afforestation.
Desertification control. Greenbelts.

Specific activities
being carried out: Tree planting campaigns in schools and rural areas.

New activities planned: Seminars, youth camps and participation in the Green
Sahel operation.

Publications: "CLUB-INFO".

Sources of Support: World Wildlife Fund and various donors.

Fixed Experimental stations
and their activities: None.

Source of Information: R

Code: K502

Name: Instituto de Pesquisa e Tecnologia

Address: Praia,
CAPE VERDE

Cable/Telex:

Telephone:

Name of the Head of
the Organ: J. Querido

Title: Director

No. of Professionals:

Main Internal Organization:

Subject Areas of Concern: Biogas Technology. Energy. Solar energy. Wind power.
Alternate energy.

Specific activities
being carried out: Studies on energy problems, wind energy and biogas
uses.

New activities planned:

Publications:

Sources of Support:

Fixed Experimental stations
and their activities:

Source of Information: (1)

Code: K503

Name: Centre for Agrarian Studies,
Ministry for Rural Development

Address: P.O. Box 50, Praia,
CAPE VERDE

Cable/Telex: -/72 MDR/CV

Telephone:

Name of the Head of
the Organ: H. da Silva Soares

Title: Director General

No. of Professionals: 20

Main Internal Organization: Departments.

Subject Areas of Concern: Soil management and conservation. Hydrology. Soil
maps. Land use. Soil fertility. Saline soils. Crops.
Irrigation. Pastures. Vegetation. Pest management and
control. Animal diseases. Social aspects. Water
balance. Watershed management.

Specific activities
being carried out: Soil mapping; Land use planning; Soil fertility and
salinity; Crop variety trials; Irrigation; Vegetation
and pasturage; Mapping; Biological control of pests.

New activities planned: Hydric balance in sub-watersheds, erosion assessments;
pilot watershed for management studies.

Publications: "Investigação Agrária (biannual).

Sources of Support: Government and donors (USAID, FRG).

Fixed Experimental stations
and their activities: S. Jorge dos Orgaos and Tarrafal in Santiago Island,
and Monte Genebra in Fogo: Crop variety studies;
integrated pest management, irrigation needs for
crops, soil fertility.

Source of Information: R

Code: K504

Name: Ministério do Desenvolvimento Rural

Address: B.P. 50, M.D.R., Praia,
CAPE VERDE

Cable/Telex: 72 MDR-CV

Telephone: 331

Name of the Head of
the Organ: Mr. J. Pereira Silva

Title: Ing. Agrónomo, Minister of Rural Development.

No. of Professionals: 147

Main Internal Organization:

Subject Areas of Concern: Soil conservation. Water conservation. Forest
management.

Specific activities
being carried out: Conservation of soils, waters and forests.

New activities planned: Extension of the present activities.

Publications: None.

Sources of Support: International Organizations (FAO/BEL, USAID, EEC,
UNSO/UNDP, etc.).

Fixed Experimental stations
and their activities: Centre for agrarian studies at S.Jorge.

Source of Information: R

Code: K505

Name: Centro de Estudos Agrários

Address: P.O. Box 50, Sao Jorge dos Orgaos,
CAPE VERDE

Cable/Telex:

Telephone:

Name of the Head of
the Organ: Mr. H. Soares

Title: Director

No. of Professionals:

Main Internal Organization:

Subject Areas of Concern: Natural resources. Agricultural climatology.
Hydrology. Soil sciences. Erosion. Soil fertility.
Water management. Water analysis. Water requirements
in crops. Irrigation. Social aspects. Economics.
Training and education. Rural development and planning

Specific activities
being carried out: Inventory of natural resources; Agroclimatology;
Hydrology and soil sciences studies; Quantification
and evaluation of erosion; Erosion combat techniques;
Agricultural productivity; Water economy and soil
fertility; Soil and water analysis; Evaluation of
waste water for irrigation; Family economics; Social
problems; Land legislation; Agroecconomics and training
scientific staff.

New activities planned:

Publications:

Sources of Support:

Fixed Experimental stations
and their activities:

Source of Information: (1)

Code: K600

Name: Direction de Forêts

Address: B.P. 447, N'Djamena,
CHAD

Cable/Telex:

Telephone: 34 24

Name of the Head of
the Organ: A. Mahamat

Title: Directeur

No. of Professionals: 39

Main Internal Organization: Three service centers and eight forest inspectorates.

Subject Areas of Concern: Reafforestation. Forest management. Forest products.
Forestry. Plant adaptation.

Specific activities
being carried out: Reafforestation projects; Establishment of nurseries
at community level.

New activities planned: Inventory of forest resources, introduction of new
species, research on local forest species.

Publications: None.

Sources of Support: Government, international organizations (e.g. UN
System); NGOs (e.g. CARE-Tchad, AFRICARE, AICF, etc.).

Fixed Experimental stations
and their activities: None.

Source of Information: R

Code: K601

Name: Direction du Genie Rural

Address: B.P. 47, N'Djamena,
CHAD

Cable/Telex: -/CABPUB C 5248 KD

Telephone: 22 82

Name of the Head of
the Organ: A. Abderahmane

Title: Ingenieur des Travaux Ruraux

No. of Professionals: 25

Main Internal Organization:

Subject Areas of Concern: Water conservation. Soil management and conservation.
Reafforestation. Irrigated agriculture. Irrigation.
Rural development and planning. Land reclamation.

Specific activities
being carried out: Barrier construction in two regions of Chad;
Reafforestation and irrigated agriculture in the
N'Damena region.

New activities planned: Development of soils by irrigation.

Publications: Activity reports.

Sources of Support: Government, international organizations and NGOs.

Fixed Experimental stations
and their activities:

Source of Information: R

Code: K602

Name: Direction de Plan et du Developpement,
Ministère du Plan et de la Cooperation

Address: B.P. 286, N'Djamena,
CHAD

Cable/Telex:

Telephone:

**Name of the Head of
the Organ:**

Title: Directeur

No. of Professionals:

Main Internal Organization:

Subject Areas of Concern: Economic development. Agriculture. Rural development
and planning.

**Specific activities
being carried out:**

New activities planned:

Publications:

Sources of Support:

**Fixed Experimental stations
and their activities:**

Source of Information: (1)

Code: K603

Name: Laboratoire de Recherches Vétérinaires et
Zootechniques

Address: B.P. 433, N'Djamena,
CHAD

Cable/Telex: LABOFARCHA - N'DJAMENA/-

Telephone: 24 75

Name of the Head of
the Organ:

Title:

No. of Professionals: 5

Main Internal Organization:

Subject Areas of Concern: Vegetation. Animal diseases. Animal health. Animal
physiology. Livestock. Pastoralism. Pest control
animals. Grazing.

Specific activities
being carried out: Vaccine production.

New activities planned: Agrostologic studies, epidemiologic studies.

Publications: "Revue de l'Institut d'Elevage et de Médecine
Vétérinaire des Pays Tropicaux".

Sources of Support: From vaccine sales, FAO, FED.

Fixed Experimental stations
and their activities: Planned for 1986.

Source of Information: R

Code: K604

Name: Institut d'Enseignement Zootechnique
et Vétérinaire d'Afrique Centrale,
Université du Tchad

Address: B.P. 683, N'Djamena,
CHAD

Cable/Telex:

Telephone:

Name of the Head of
the Organ: L. de Selion Donkar

Title: Dean

No. of Professionals:

Main Internal Organization:

Subject Areas of Concern: Pastoralism. Livestock. Drought. Mapping and
cartography. Agriculture. Drought tolerance. Training
and education in agriculture and animals.

Specific activities
being carried out:

New activities planned:

Publications:

Sources of Support:

Fixed Experimental stations
and their activities:

Source of Information: (1)

Code: K605

Name: Institut National des Sciences Humaines

Address: B.P. 503, N'Djamena
CHAD

Cable/Telex:

Telephone: 29 67, 29 85

Name of the Head of the Organ: P. Dagou

Title: Directeur

No. of Professionals: 23

Main Internal Organization:

Subject Areas of Concern: Geography; Ethnology.

Specific activities being carried out: Assisting the research activities of international organizations in the desertification-threatened Sahelian zone.

New activities planned: and linguistics. Basic research in geography, history, ethnology.

Publications:

Sources of Support: Government and international organizations.

Fixed Experimental stations and their activities:

Source of Information: R.

Code: K607

Name: Direction des Forêts, Chasse et
Lutte contre la Désertification

Address: B.P. 447, N'Djamena,
CHAD

Cable/Telex:

Telephone: 34-24

**Name of the Head of
the Organ:** A. Mahamat

Title: Directeur

No. of Professionals: 25

Main Internal Organization: Direction; Services; Forest Inspections.

Subject Areas of Concern: Agroforestry. Forest products. Soil management and
conservation. Afforestation. Sand dunes. Forest
management. Forestry. Vegetation.

**Specific activities
being carried out:** Community afforestation; Vegetation protection;
Establishment of forest nurseries.

New activities planned: Establishment of new forest nurseries, reafforestation
programmes, management of natural and planted forests
establishment of wind break programmes, sand dune
fixation around oases, development of gum tree
production.

Publications: Monographs.

Sources of Support: Government, UNDP, UNSO, FAO, PAM, CARE, USAID.

**Fixed Experimental stations
and their activities:** None.

Source of Information: R

Code: K608

Name: Direction des Ressources en Eau et
de la Météorologie

Address: B.P. 429, N'Djamena,
CHAD

Cable/Telex:

Telephone: 30 81 or 30 43

Name of the Head of
the Organ: B. Neamiongodo

Title: Directeur

No. of Professionals: 26

Main Internal Organization: Five services.

Subject Areas of Concern: Hydrology. Agricultural climatology. Climatology.

Specific activities
being carried out: AGRHYMET-Chad project.

New activities planned: Agrometeorological monitoring.

Publications: Agrometeorological bulletins (monthly), pluviometric
and hydrological bulletins (monthly), hydrological
yearbook.

Sources of Support: Government and WMO, UNDP, CILSS

Fixed Experimental stations
and their activities: Observation stations: Nine agrometeorological, 20
climatological, 110 pluviometrical and 50 hydrological.

Source of Information: R

Code: K609

Name: Station de Recherche Bardai

Address: Tibesti,
CHAD

Cable/Telex:

Telephone:

Name of the Head of
the Organ: Dr. J. Hoverman

Title: Directeur

No. of Professionals:

Main Internal Organization: Geographical station of the Free University of Berlin.

Subject Areas of Concern: Desert ecology. Geomorphology.

Specific activities
being carried out: Research in desert geomorphology, assisted by Berlin
Research Association.

New activities planned:

Publications:

Sources of Support:

Fixed Experimental stations
and their activities:

Source of Information: (1)

Code: K700

Name: Institut Supérieur d'Etudes et de Recherches
Scientifiques et Techniques

Address: P.O. Box 486, Djibouti,
DJIBOUTI

Cable/Telex: -/5811 DJ

Telephone: 35 27 95

Name of the Head of
the Organ: A. Abdallah

Title: Geophysicien

No. of Professionals: 16

Main Internal Organization: Direction; Administration and sections of Soil, Human
and Biological Sciences (the latter is concerned with
desertification).

Subject Areas of Concern: Forests. Forestry. Environment. Desertification
control.

Specific activities
being carried out: Protection and conservation of the Day forests.

New activities planned: Forest development and desertification control in
collaboration with the Ministry of Agriculture and
Rural Development.

Publications: None.

Sources of Support: Government.

Fixed Experimental stations
and their activities: - Station du Day: Experimental research laboratory.

Source of Information: R

Code: K701

Name: Service de l'Agriculture et des Forêts

Address: B.P. 224, Djibouti,
DJIBOUTI

Cable/Telex:

Telephone:

Name of the Head of
the Organ:

Title: Directeur

No. of Professionals:

Main Internal Organization:

Subject Areas of Concern: Soil amendment. Reafforestation. Forestry. Soil
science. Soil management.

Specific activities
being carried out:

New activities planned:

Publications:

Sources of Support:

Fixed Experimental stations
and their activities:

Source of Information: (1)

Code: K804

Name: Dept. of Geology, Faculty of Science,
University of Alminyah

Address: Alminyah,
EGYPT

Cable/Telex:

Telephone:

Name of the Head of
the Organ: Dr. A. Al-Jundi

Title: Head, Dept. of Geology.

No. of Professionals:

Main Internal Organization:

Subject Areas of Concern: Soil degradation. Sand control. Irrigated soils.
Saline soil.

Specific activities
being carried out: Research on the problems of soil deterioration
resulting from salinity and the accumulation of
shifting sands settling on irrigated lands along the
Nile.

New activities planned:

Publications:

Sources of Support:

Fixed Experimental stations
and their activities:

Source of Information: (2)

Code: K805

Name: Desert Research Institute

Address: El-Mattaria, Cairo,
EGYPT

Cable/Telex:

Telephone:

**Name of the Head of
the Organ:** Prof. S. Thabet

Title: Director

No. of Professionals: 61

Main Internal Organization: Plant and animal research section: Animal production,
Plant production, and Ecology; Water Resources and
Soil Research Station: Soil and water conservation,
Soils, Hydrology, and Geology.

Subject Areas of Concern: Animal production. Erosion Control. Geology. Sheep.
Geomorphology. Horticulture. Soil conservation. Land
reclamation. Water salinisation. Water resources.
Climate. Sand dunes. Natural resources. Agriculture.

**Specific activities
being carried out:** Regional study of the Atesian Basin in northern Sudan;
Soil study on the fringes of lake Nasser; Preparation
of a sheep encyclopedia for the Arab world; National
programme for sand dune fixation; Study on
agricultural natural resources in Sinai and their
future till the year 2000.

New activities planned:

Publications: "Desert Institute Bulletin" (biennial).

Sources of Support:

**Fixed Experimental stations
and their activities:**

Source of Information: (1)(2)

Code: K806

Name: Drainage Research Institute

Address: 13 Giza Street,
Giza,
EGYPT

Cable/Telex: 94014 EXWAP UN

Telephone: 723054

Name of the Head of
the Organ: Mr. M.M. Gasser

Title: Professor

No. of Professionals: 35

Main Internal Organization: Four organizations.

Subject Areas of Concern: Drainage. Irrigation. Water balance. Water
salinisation. Water reuse.

Specific activities
being carried out: Drainage technology and criteria; Reuse of drainage
water for irrigation; Water and salt balance studies
in certain areas.

New activities planned: The effects of saline water irrigation on soil and
crops.

Publications: Reports for the Advisory Panel for Land Drainage in
Egypt, scientific papers.

Sources of Support: Government.

Fixed Experimental stations
and their activities:

Source of Information: R

Code: K808

Name: General Organization for Desert
Rehabilitation

Address: Dokki, Cairo,
EGYPT

Cable/Telex:

Telephone:

Name of the Head of
the Organ:

Title: Director

No. of Professionals:

Main Internal Organization:

Subject Areas of Concern: Ground water allocation. Agronomy. Water conservation.
Water management. Livestock. Land reclamation. Natural
resources. Desert biome.

Specific activities
being carried out: Survey and evaluation of underground water in the
Western Desert; Survey of the natural resources of the
Mediterranean Desert; Pre-investment study of the
northwestern coastal region.

New activities planned:

Publications: Technical reports.

Sources of Support:

Fixed Experimental stations
and their activities:

Source of Information: (1)

Code: K809

Name: National Research Centre:
Soil and Water Laboratory

Address: Eltahrir Street,
Dokki, Cairo,
EGYPT

Cable/Telex:

Telephone:

Name of the Head of
the Organ: Dr. M. Kamel

Title: Director

No. of Professionals: 31

Main Internal Organization:

Subject Areas of Concern: Soil classification. Drainage. Soil degradation.
Saline soils. Soil fertility. Nitrogen fixation.
Remote sensing. Irrigation systems.

Specific activities
being carried out: Soil survey of Wadi El Natroun, Siwa Oasis and Monayef
Oasis; Study of water requirements for the Mariouit
project; Evaluation of the drainage efficiency in the
Nile delta; Evaluation of the efficiency and economics
of sprinkler irrigation in Enshas; Use of remote
sensing techniques in agriculture.

New activities planned:

Publications: "The Scientific Review of the National Research
Centre" (quarterly).

Sources of Support:

Fixed Experimental stations
and their activities:

Source of Information: (1)

Code: K811

Name: Research Institute for Ground Water

Address: 15, Giza Street,
Giza, Cairo,
EGYPT

Cable/Telex:

Telephone:

Name of the Head of
the Organ: Dr. K. Hefni

Title: Director

No. of Professionals:

Main Internal Organization:

Subject Areas of Concern: Groundwater. Hydrogeology. Seepage. Aquifers. Land
reclamation. Water salinisation.

Specific activities
being carried out: Conducting hydrogeological investigations in the Nile
Valley; Study of changes in the groundwater regime due
to the construction of the Aswan High Dam; Study of
the effects of land reclamation in the Kom Ombo
plateau on the hydrogeology of groundwater reservoirs;
Study of salt water intrusion on Nile Delta aquifers;
Study of Nubian sandstone aquifers in north-east
Africa.

New activities planned:

Publications: Technical reports.

Sources of Support:

Fixed Experimental stations
and their activities:

Source of Information: (1)

Code: K814

Name: Soil and Water Research Institute

Address: Agricultural Research Centre
El-Dokki, Cairo,
EGYPT

Cable/Telex:

Telephone:

Name of the Head of
the Organisation: Dr. I. Antar

Title: Director

No. of Professionals:

Main Internal Organization:

Subject Areas of Concern: Erosion. Land use. Land reclamation. Water
salinisation. Water quality. Mapping and cartography.
Drainage. Saline soils. Crop production. Water use.
Biogas technology.

Specific activities
being carried out: Preparation of productivity map of Egypt; Drainage
system and materials project; Studies on the
reclamation of alkaline and saline soils; Water use
and management project; Egyptian major cereal
improvement project; Land master plan; Regional
project for water and land use; Drainage criteria
project and Egyptian national biogas project.

New activities planned:

Publications: "Agricultural Research Review".

Sources of Support:

Fixed Experimental stations
and their activities:

Source of Information: (1)

Code: K815

Name: Desert Development Center
The American University in Cairo

Address: 113, Sharia Kasr El Aini,
Cairo,
EGYPT

Cable/Telex: VICTORIOUS-CAIRO/92224 AUCAI UN

Telephone: 54 29 69

Name of the Head of the Organ: Dr. A. Bishay

Title: Director

No. of Professionals: 40

Main Internal Organization: Three research units.

Subject Areas of Concern: Hydroponics. Horticulture. Dry farming. Crop response. Drought tolerance. Micronutrients. Non-arable agriculture. Arid lands planning and development. Water management. Renewable energy. Biogas technology. Energy. Solar energy. Desert soils. Training and education in lands and soils.

Specific activities being carried out: Desert farming systems research with special interest in improving sandy soil productivity; Appropriate horticultural testing and demonstration; Non-conventional techniques of agriculture.

New activities planned: Demonstration of six alternative farms as possible models for young graduates, demonstration of a dairy processing pilot project using biogas and solar thermal energy; hybrid renewable energy systems for remote desert areas.

Publications: "Advances in Desert and Arid Land Technology and Development", brochures and progress reports.

Sources of Support: Government, Near East Foundation, IDRC-Canada, Ford Foundation, USAID, private donations, Iran Development Bank, UNDP, World Bank, FAO.

Fixed Experimental stations and their activities:

- 500 acres at south Tahrir for applied research and demonstrations in desert agriculture using conventional power;
- 200 acres at Sadat City for non-conventional agriculture and renewable energy applications.

Source of Information: R

Code: K817

Name: Botany Dept., Ecology Lab.,
Alexandria University

Address: Moharram Bey,
Alexandria,
EGYPT

Cable/Telex:

Telephone: 22919

Name of the Head of
the Organ: Prof. M. Ayyad

Title: Plant Ecologist

No. of Professionals: 12

Main Internal Organization: Ecology laboratory.

Subject Areas of Concern: Vegetation. Nutrients. Land use. Mapping and
cartography. Phytogeography. Coastal deserts. Crop
protection. Biomes.

Specific activities
being carried out: Vegetation analysis; Nutrient cycling; Land use maps;
phyto-sociology.

New activities planned: Modelling of the crop production in the northwestern
coastal desert of Egypt.

Publications: Progress reports.

Sources of Support: Government

Fixed Experimental stations
and their activities: - Burg, El Arab;
- Omyed: biosphere reserve.

Source of Information: R

Code: K819

Name: Institute of African Research and Studies,
Cairo University

Address: 12613 Giza, Cairo,
EGYPT

Cable/Telex:

Telephone:

Name of the Head of
the Organ: Prof. M. A. Seoudy

Title: Director

No. of Professionals: 24

Main Internal Organization: Six departments.

Subject Areas of Concern: Geography. Afforestation. Soil conservation. Plant
adaptation. Animal adaptation. Vegetation. Economic
development. Desert soils. Soil erosion. Fauna.

Specific activities
being carried out: Programmes on afforestation, soil conservation, soil
fauna; Desertification indicators; Vegetation
regeneration; Litter breakdown in deserts; Plant and
animal adaptation.

New activities planned: Transformation of organic matter in desert soils,
characterization of sites according to abiotic and
biotic parameters, wind tunnel experiments on soil
erosion.

Publications: "African Studies Review", "African Studies Review
Special Publications", occasional papers, "Proceedings
of ISAS" (biannual).

Sources of Support: Government.

Fixed Experimental stations
and their activities: Burg El-Arab Station, 50 km west of Alexandria.

Source of Information: R

Code: K821

Name: The Egyptian Remote Sensing Centre (RSC)

Address: Academy of Scientific Research and Technology
101, Kasr El Eini Street,
Cairo,
EGYPT

Cable/Telex:

Telephone:

Name of the Head of
the Organ: Dr. M.A. Hady

Title: Director

No. of Professionals:

Main Internal Organization:

Subject Areas of Concern: Remote sensing. Mapping. Hydrogeology. Sand dunes.
Water storage. Drainage. Oases. Desertification.

Specific activities
being carried out: Geological and structural investigations of the site
of water storage tanks in sector F, El-Mokattam City;
Delineation of sand dunes in Asyut and El-Bahariya
oases; Geology studies of land forms and drainage of
El-Ismailia Canal; Monitoring desertification in
Egypt; Monitoring urban development of Greater Cairo
area.

New activities planned:

Publications:

Sources of Support:

Fixed Experimental stations
and their activities:

Source of Information: (1)

Code: K900

Name: African Training and Research Centre
for Women (ATRCW) - UNECA

Address: P.O. Box 3001, Addis Ababa,
ETHIOPIA

Cable/Telex: -/21029 ECA

Telephone: 44/200

Name of the Head of
the Organ: M. Tadesse

Title: Chief

No. of Professionals: Six

Main Internal Organization: ATRCW is a division of UNECA.

Subject Areas of Concern: Rural development and planning. Social aspects.
Drought. Water supply. Afforestation. Fuelwood. Food
supply.

Specific activities
being carried out: ATRCW is responsible for carrying out the Arusha
strategies for the advancement of women in Africa.

New activities planned:

Publications:

Sources of Support:

Fixed Experimental stations
and their activities:

Source of Information: R

Code: K901

Name: Agronomic Research Co-ordination Unit

Address: P.O. Box 5765, Addis Ababa,
ETHIOPIA

Cable/Telex:

Telephone:

Name of the Head of
the Organ:

Title: Director

No. of Professionals:

Main Internal Organization:

Subject Areas of Concern: Agronomy. Agriculture. Crop response. Cultivation
systems. Irrigation. Plant populations. Planting
management. Pest management and control.

Specific activities
being carried out: Serving government farms under the State Farms
Development Authority of the Ministry of Agriculture.

New activities planned:

Publications:

Sources of Support:

Fixed Experimental stations
and their activities:

Source of Information: (1)

Code: K902

Name: Association for the Development of
Agricultural Sciences in Africa (ADASA)

Address: P.O. Box 30087, Addis Ababa,
ETHIOPIA

Cable/Telex:

Telephone:

**Name of the Head of
the Organ:** Dr. J.M. Menyanga

Title: Administrative Secretary-General

No. of Professionals:

Main Internal Organization:

Subject Areas of Concern: Crop production. Animal health. Soil management. Water
manag.. Animal production. Agricultural mechanization.
Economic development. Rural dev. and planning. Social
aspects. Food conservation. Foods.

**Specific activities
being carried out:** Development, promotion and application of agricultural
sciences and exchange of ideas; Encouraging training
and holding seminars in different African countries.

New activities planned:

Publications: "African Journal of Agricultural Sciences", "ADASA
Newsletter", proceedings of workshops and conferences.

Sources of Support:

**Fixed Experimental stations
and their activities:**

Source of Information: (1)

Code: K905

Name: Desert Locust Control Organization for
Eastern Africa

Address: P.O. Box 4255, Addis Ababa
ETHIOPIA

Cable/Telex: DESLOC ADDIS/-

Telephone: 18 14 75, 18 14 77, 18 14 64

Name of the Head of
the Organ: H.E. Mr. M. Wako

Title: Director General

No. of Professionals: 50

Main Internal Organization:

Subject Areas of Concern: Pest management control. Animal ecology. Biological
control. Bird entomology. Insect control.

Specific activities
being carried out: Promoting the most effective control of the desert
locust in East African countries such as Djibouti,
Ethiopia, Kenya, Somalia, Sudan, Tanzania and Uganda.
Co-ordination on national action against the desert
locust and control of other pests such as tsetse fly,
quelea birds and armyworms.

New activities planned:

Publications: Annual reports, technical reports and newsletter.

Sources of Support: Contribution from member Governments.

Fixed Experimental stations
and their activities: Control Reserve Bases (CRB) in Djibouti, (Djibouti),
Dire Dawa, Asmara (Ethiopia), Nairobi (Kenya),
Hargeisa and Mogadishu (Somalia), Khartoum (Sudan),
Arusha (Tanzania), Kampala (Uganda).

Source of Information: R

Code: K907

Name: Institute of Agricultural Research (IAR)

Address: P.O. Box 2003, Addis Ababa,
ETHIOPIA

Cable/Telex: MERMIRU/-

Telephone: 16 03 09

Name of the Head of
the Organ: Dr. S. Debela

Title: General Manager

No. of Professionals: None.

Main Internal Organization:

Subject Areas of Concern: Soil degradation. Wind erosion. Drought.

Specific activities
being carried out: Wind erosion study at Nazaret Research Station.

New activities planned: Recurrence internal study of drought using past
rainfall data.

Publications: None related to desertification.

Sources of Support: Government

Fixed Experimental stations
and their activities: - Nazaret Research Station: Only one research
activity (wind erosion) related to desertification.

Source of Information: R

Code: K909

Name: International Livestock Centre for Africa (ILCA)

Address: P.O. Box 5689, Addis Ababa,
ETHIOPIA

Cable/Telex: ILCAF/-

Telephone: 18 32 15 through 18 32 22 and 18 24 55

Name of the Head of the Organ: Dr. P. Brumbly

Title: Director General

No. of Professionals: 100

Main Internal Organization: Depts. of: Central Research; Directorate;
Administration; Finance; and Information.

Subject Areas of Concern: Fertilizers. Fallowing. Soil fertility. Animal work and traction. Dry farming. Drought. Biogas tech.. Pastures. Pastoralism. Crop prod.. Crop response. Arid lands manag. and dev.. Cattle. Climate-vegetal relationships. Disease control. Productivity. Rangelands. Range manag.. Agronomy. Ecology. Appropriate tech.. Livestock.

Specific activities being carried out: Agronomic trials to increase total dry yields on arable land; Improvements in dry-season nutrition of work oxen; Alleviation of animal health problems to prevent mortality; Improvement of pasture manag. in the inner Niger flood plain area; Studies of trypanotolerant breeds; Increase of livestock prod.; Appropriate use of forage legumes; Selection and dev. of appropriate tech. for sub-Saharan region; Herd movement and manag.; Integrated evaluation of semi-arid lands; Human nutrition. Animal health training; Livestock dev.; Tropical rangeland manag. and land evaluation.

New activities planned: Resource inventories.

Publications: Research report, systems studies, bulletin, newsletter (quarterly), training manuals, conference reports, cartographic report, annual report, brochures and leaflets; bibliography and indexes.

Sources of Support: CGIAR (Consultative Group on Internat. Agricultural Research), IDA, IBRD, IDRC, IFAD, USAID. Govs. of Australia, Belgium, Canada, Denmark, F.R. Germany, France, India, Ireland, Italy, Netherlands, Nigeria, Norway, Sweden, Switzerland, U.K., special projects grants: Belgium, Botswana, GTE, Economic Dev. Institute, Ethiopia, Ford Foundation, Nigeria and USAID.

Fixed Experimental stations and their activities:

Source of information: R

Code: K910

Name: Land Use Planning and Regulatory Dept.,
Ministry of Agriculture and Settlement

Address: LUPRD Ministry of Agriculture
ETH.82/010 c/o FAO 5536
ETHIOPIA

Cable/Telex:

Telephone: 15 63 67, 16 60 16

Name of the Head of
the Organ: Dr. E. Bekele

Title: Head of LUPRD

No. of Professionals: 80

Main Internal Organization: Land use planning project; National soil survey
project; and Ethiopian highland reclamation study.

Subject Areas of Concern: Land use. Mapping and cartography. Land reclamation.
Soil classification. Soil degradation. Soil management
and conservation. Soil surveys. Watershed management.

Specific activities
being carried out: Producing a master land use plan throughout the
country (Scale: 1:1 000 000); Detailed land use plan
for watershed management (Scale: 1: 50 000);
Training nationals in various fields related to
resource data assessments; Soil inventories and
building National Soil Laboratory; A highland
reclamation study.

New activities planned:

Publications: Technical reports, maps on different scales, working
papers and a draft development strategy for Ethiopian
highlands.

Sources of Support: Government, UNDP, World Bank.

Fixed Experimental stations
and their activities: Addis Ababa with a regional office being established.

Source of Information: R

Code: K914

Name: Soil and Water Conservation Department

Address: P.O. Box 62347, Addis Ababa,
ETHIOPIA

Cable/Telex:

Telephone: 15 70 67

Name of the Head of
the Organ: Mr. K. Tato

Title: Director

No. of Professionals: 4

Main Internal Organization:

Subject Areas of Concern: Soil conservation. Water conservation. Vegetation.
Reafforestation. Water surface. Forage plants. Forage
production. Training and education. Land reclamation.
Water management.

Specific activities
being carried out: Rehabilitation activities including farmland;
Conservation; Vegetation; Reafforestation and gully
control; Surface water development and improvement of
forage and fodder crops for soil conservation;
Training of field technicians and protection
programmes in six regions.

New activities planned:

Publications:

Sources of Support:

Fixed Experimental stations
and their activities:

Source of Information: (1)

Code: K915

Name: United Nations Economic Commission for Africa (ECA)

Address: P.O. Box 3001, Addis Ababa,
ETHIOPIA

Cable/Telex: ECA Addis Ababa/-

Telephone: 44 72 00

Name of the Head of
the Organ: Prof. A. Adedeji

Title: Executive Secretary

No. of Professionals: 277

Main Internal Organization: Divisions: ECA/FAO Agriculture; Social development;
Environment and human settlements; Natural resources;
and Multinational programming and operational centres.
ECA has five subregional offices in Africa known as
MULPOC.

Subject Areas of Concern: Rural development and planning. Social aspects.
Agriculture. Land use. Natural resources. Land
management. Conservation. Soil conservation.
Environment. Drought.

Specific activities
being carried out: Land-use planning; Conservation and development of
natural resources; Environmental protection and
Combating drought.

New activities planned: Most activities mentioned above will continue with
emphasis on national preparedness strategies to combat
the impacts of drought.

Publications: Various reports on food and agricultural development
in Africa.

Sources of Support: UN regular budget, FAO, UNIDO, UNEP.

Fixed Experimental stations
and their activities: None.

Source of Information: R

Code: K916

Name: State Forest Conservation and Development Dept.

Address: P.O. Box 1034, Addis Ababa,
ETHIOPIA

Cable/Telex: -/21460 GTZFP

Telephone: 15 54 90

Name of the Head of
the Organ: A.W. Nerie

Title: Department Head

No. of Professionals:

Main Internal Organization: Within Ministry of Agriculture and Natural Resources.

Subject Areas of Concern: Reafforestation. Wood management. Wood technology.
Fuel wood. Forests. Forest management. Shelterbelts.

Specific activities
being carried out: Catchment area reafforestation; Firewood plantations;
Shelterbelt and windbreak plantations.

New activities planned: National forest inventory, peri-urban firewood
plantations, better use of forest residues through
charcoaling and briquettes, increase of management
systems, education of peasants in the critical areas.

Publications: Guidelines "Reafforestation and Erosion Control in
Ethiopia.

Sources of Support: Ethi-German Reforestation Project, WFP, SIDA, DANIDA,
FINIDA, World Bank.

Fixed Experimental stations
and their activities:

Source of Information: R

Code: K918

Name: Relief and Rehabilitation Commission

Address: P.O. Box 5686, Addis Ababa,
ETHIOPIA

Cable/Telex:

Cable: REHAB/-

Telephone: 15 49 63

Name of the Head of
the Organ:

Title: Commissioner

No. of Professionals: 16

Main Internal Organization: Land Reclamation Dept and Utilization Dept.

Subject Areas of Concern: Land reclamation. Land use. Land resources.
Agroforestry. Soil conservation. Water conservation.
Afforestation. Surface waters. Water management. Water
conservation. Training and education. Appropriate
technology. Settlements.

Specific activities
being carried out: Afforestation and soil and water conservation
practices; Planting of wood lots; Agroforestry;
Construction of soil bunds; Surface water management;
Training of settlers.

New activities planned: Introduction of biogas use.

Publications: Field personnel guides and teaching materials for
settlers.

Sources of Support: Government and donor agencies.

Fixed Experimental stations
and their activities: None.

Source of Information: R

Code: L000

Name: Department of Animal Health and Production

Address: Abuko
GAMBIA

Cable/Telex:

Telephone:

Name of the Head of the Organ: Dr. S.B.K. Quortey

Title: Director

No. of Professionals: 20

Main Internal Organization:

Subject Areas of Concern: Animal diseases. Animal health. Animal breeding. Pastures. Range management. Cattle. Sheep.

Specific activities being carried out: Livestock extension and disease control.

New activities planned: Pasture development; Small ruminant breeding; Range management; Animal health care programme.

Publications: None.

Sources of Support: Government and international agencies.

Fixed Experimental stations and their activities: - Yundan Experimental farm: Cattle, sheep and goat breeding;
- Y.B.K. station: Seed multiplication centre.

Source of Information: R

Code: L001

Name: Forestry Department

Address: 5, Marina Parade, Banjul,
GAMBIA

Cable/Telex: -/2204 PRESOF GV

Telephone: 307

Name of the Head of
the Organ: B.M.M. Taal

Title: Director

No. of Professionals: 3

Main Internal Organization:

Subject Areas of Concern: Reafforestation. Conservation. Flora. Desertification.
Fuelwood. Shelterbelts. Forestry.

Specific activities
being carried out: Village woodlots; Shelterbelts; Limiting bushfires.

New activities planned: Preparation of a nation-wide plan for desertification
control and its implementation.

Publications: "Forestry in the Gambia", "Medicinal uses of plants in
the Gambia".

Sources of Support: Government, USAID, GTZ, BADEA/FAO.

Fixed Experimental stations
and their activities: Trial plots in different ecological zones to determine
growth and mortality rates.

Source of Information: R

Code: L002

Name: Department of Forestry and the Environment Unit
Ministry of Water Resources and the Environment.

Address: 5, Marina Parade, Banjul,
GAMBIA

Cable/Telex:

Telephone: 537, 307

Name of the Head of
the Organ: Mr. M. Taal (Forestry)
Mr. S.O. Fye (Environment)

Title:

No. of Professionals: 4

Main Internal Organization:

Subject Areas of Concern: Forestry. Afforestation. Environment. Ecosystems.
Training and education in environment. Land manag..
Overgrazing. Soil erosion. Land degradation. Forest
fires.

Specific activities
being carried out: Afforestation programmes; Bush fire fighting;
Ecosystems studies; Environmental awareness and
education programmes; Enforcement of lands.

New activities planned: Prevention of overgrazing, overcultivation, soil
erosion and land degradation.

Publications: Newsletters.

Sources of Support: Government.

Fixed Experimental stations
and their activities: - Arboretums: growth rate.

Source of Information: R

Code: L004

Name: Ministry of Agriculture and Natural Resources

Address: Banjul,
GAMBIA

Cable/Telex:

Telephone:

Name of the Head of
the Organ: Mr. J.K.K. Sanneh

Title: Permanent Secretary

No. of Professionals:

Main Internal Organization:

Subject Areas of Concern: Forestry. Water resources. Livestock. Animal health.
Animal production. Crop production. Natural resources.
Agriculture.

Specific activities
being carried out:

New activities planned:

Publications:

Sources of Support:

Fixed Experimental stations
and their activities:

Source of Information: (1)

Code: L200

Name: Direction Préfectorale des Eaux et Forêts

Address: Conakry,
GUINEA

Cable/Telex: -/-

Telephone: 24 54

Name of the Head of
the Organ: K.N. Camara

Title: Controleur des Eaux et Forêts

No. of Professionals: 49

Main Internal Organization: One direction office, two sections, 28 sectors.

Subject Areas of Concern: Forestry. Land degradation. Land reclamation.
Afforestation. Deforestation. Reafforestation. Forest
fires.

Specific activities
being carried out: Combating forest fires and deforestation. Forest
protection. Afforestation in degraded areas.

New activities planned: Establishment of a new forest nursery and
reafforestation of 46 ha.

Publications: Monthly activities report.

Sources of Support: Government, ONAF.

Fixed Experimental stations
and their activities: None.

Source of Information: R

Code: L209

Name: Div. de Recherche de l'Université de Kankan

Address: Kankan,
GUINEA

Cable/Telex:

Telephone: 2092, 2672

Name of the Head of the Organ: L. Agumbouya

Title: Ing. Agronome

No. of Professionals: 23

Main Internal Organization: Five sections, one is responsible for nature protection.

Subject Areas of Concern: Climatology. Forestry. Soil classification. Nature protection. Reafforestation. Environmental impact. Water conservation. Parks and reserves.

Specific activities being carried out: Study of the negative effect and possible changes of socio-economic activities on nature; Soil classification studies for creation of zoo-botanical parks; Identification of areas for reafforestation.

New activities planned: Establishment of a botanical garden and a zoo in Kankan, reafforestation of water source areas.

Publications: "Banda" a review of national scientific activities, "INFORURAL".

Sources of Support: Government.

Fixed Experimental stations and their activities: Centre de Recherche Agronomique de Bordo.

Source of Information: R

Code: L211

Name: Service National des Sols,
Ministère de l'Agriculture

Address: Km.9, Conakry,
GUINEA

Cable/Telex:

Telephone:

**Name of the Head of
the Organ:** Mr. M. Camara

Title: Chef

No. of Professionals:

Main Internal Organization:

Subject Areas of Concern: Mapping and cartography. Soil maps. Soil
classification. Land classification. Soil erosion.
Soil physics. Soil surveys.

**Specific activities
being carried out:**

New activities planned:

Publications:

Sources of Support:

**Fixed Experimental stations
and their activities:**

Source of Information: (1)

Code: L300

Name: Direcção das Florestas e Caça

Address: Ministerio do Desenvolvimento e Pescas
C.P. No. 71, Bissau,
GUINEA BISSAU

Cable/Telex: -/25

Telephone: 21 54 74

Name of the Head of the Organ: Ms.A.M. de Sá Almeida

Title: Directora dos Serviços das Florestas e Caça

No. of Professionals: 10

Main Internal Organization:

Subject Areas of Concern: Afforestation. Forest management. Shrubs. Nature protection. Wildlife. Animals. Conservation. Environment.

Specific activities being carried out: Communal forest and shrub control; Fauna protection; Preparation of national nature conservation strategy and long-term forest development plan.

New activities planned: A national seminar on the environment, preparation of forest legislation.

Publications:

Sources of Support: Government, SIDA, USAID, Dutch volunteer organizations.

Fixed Experimental stations and their activities: A research station is expected to be financed by IBRD.

Source of Information: R

Code: L400

Name: Department of Geography
University of Nairobi

Address: P.O. Box 30197, Nairobi,
KENYA

Cable/Telex: VARSITY NAIROBI/-

Telephone: 33 42 44 extn. 2016

**Name of the Head of
the Organ:** Prof. F.F. Ojany

Title: Chairman of Department

No. of Professionals: 20

Main Internal Organization:

Subject Areas of Concern: Rangelands. Land management. Water resources.
Irrigation. Climatology. Soil erosion. Sediments.
Geography. Geomorphology. Land evaluation. Training
and education in lands and soils.

**Specific activities
being carried out:** Studies on range management; Water resources; Soil
erosion; Geomorphic processes; Carrying capacity of
land.

New activities planned:

Publications: "Kenyan Geographer", monographs.

Sources of Support: University of Nairobi funding.

**Fixed Experimental stations
and their activities:** None.

Source of Information: R

Code: L401

Name: University of Nairobi
Department of Range Management

Address: P.O. Box 29053, Nairobi,
KENYA

Cable/Telex: UNIVERSITY/-

Telephone: 59 22 11

Name of the Head of
the Organ: Prof. C.N. Karue

Title: Chairman of Department

No. of Professionals: 4

Main Internal Organization:

Subject Areas of Concern: Animal populations. Livestock. Pastoralism. Plant
ecology. Rangelands. Grazing. Land management.
Pastures. Savannas. Camels.

Specific activities
being carried out: Range/livestock management systems; Research;
Rangeland consultancy; Ranch studies and evaluation.

New activities planned: Ecology studies, soil and water management, camel
management studies, range improvement.

Publications: None.

Sources of Support: Government.

Fixed Experimental stations
and their activities: - Embakasi Bombing range station;
- Kibwezi dryland station.

Source of Information: R

Code: L403

Name: University of Nairobi
Department of Soil Science

Address: P.O. Box 30197, Nairobi,
KENYA

Cable/Telex: VARSITY NAIROBI/-

Telephone: 59 22 11 Extn. 233, 59 24 01...5

Name of the Head of the Organ: S.O. Keya

Title: Chairman, Dept. of Soil Science

No. of Professionals: 11

Main Internal Organization:

Subject Areas of Concern: Soil training. Training and education. Nitrogen fixation. Soil fertility. Land evaluation. Water resources. Water management. Nutrients.

Specific activities being carried out: Field application of microbiological technologies in biological nitrogen fixation; Nutrient uptake and balances in Kenyan soils.

New activities planned:

Publications: "MIRCEN" newsletter, monographs, various scientific papers, books on agriculture for primary schools.

Sources of Support: UNEP, UNESCO, FAO, USAID, BOSTID, NAS, IDRC, Government and several donors.

Fixed Experimental stations and their activities: Kabete Campus; Several livestock development research stations of the Ministry of Agriculture.

Source of Information: R

Code: L404

Name: East African Herbarium, National
Museums of Kenya

Address: P.O. Box 45166, Nairobi,
KENYA

Cable/Telex:

Telephone: 74 21 61 extn. 209

Name of the Head of
the Organ: Ms. C.H.S. Kabuye

Title: Botanist-in-Charge

No. of Professionals: 5

Main Internal Organization:

Subject Areas of Concern: Plant taxonomy. Ecology. Plant conservation. Plant
uses. Plant distribution.

Specific activities
being carried out: Preparing "Flora of Tropical East Africa" in
collaboration with botanists at Royal Botanic Gardens,
Kew, England; Identification services and providing
relevant information on plants.

New activities planned: Inventories of specific threatened plant communities
and plant collecting resulting in check-lists.

Publications: Publication of new species in Kew Bulletin: "Flora of
Tropical East Africa", (appears family by family).

Sources of Support: Government.

Fixed Experimental stations
and their activities: None.

Source of Information: R

Code: L405

Name: Environment Liaison Centre

Address: P.O. Box 72461, Nairobi,
KENYA

Cable/Telex: ENVICENTRE / 23240 ENVICENTE

Telephone: 247 70

Name of the Head of
the Organ: Mr. D. Bull

Title: Executive Officer

No. of Professionals: 9

Main Internal Organization:

Subject Areas of Concern: Afforestation. Deforestation. Water management.
Energy. Agriculture. Environment.

Specific activities
being carried out: Information dissemination.

New activities planned: Tree planting jointly with member organisations.

Publications: "ECOFORUM" (bi-monthly), "NEWSALERT" (bi-monthly)

Sources of Support: Governments, foundations.

Fixed Experimental stations
and their activities:

Source of Information: R

Code: L406

Name: Forest Department,
Ministry of Agriculture and
Livestock Development

Address: P.O. Box 30513, Nairobi,
KENYA

Cable/Telex:

Telephone:

Name of the Head of
the Organ: Mr. O.M. Mburu

Title: Chief Conservator of Forests.

No. of Professionals:

Main Internal Organization:

Subject Areas of Concern: Forestry. Forest management. Wood technology. Forest
products. Fuel-wood. Planting management. Soil
management.

Specific activities
being carried out: Management of forest reserves; Planting forest on
sustained yield basis for pulp and fire-wood; Soil
Conservation and promotion of rural tree planting.

New activities planned:

Publications:

Sources of Support: Government.

Fixed Experimental stations
and their activities:

Source of Information: (1)

Code: L407

Name: International Centre of Insect Physiology
and Ecology

Address: P.O. Box 30772, Nairobi,
KENYA

Cable/Telex: ICIPE/22053

Telephone: 43049, 43081, 43235, 43719

Name of the Head of
the Organ: Prof. T.R. Odhiambo

Title: Director

No. of Professionals: 41

Main Internal Organization: Care programme consists of four Research Programmes;
four Research Support Units and an Outreach and
training unit.

Subject Areas of Concern: Pest management and control. Pest control in animals.
Livestock. Training and education. Crop response.
Entomology.

Specific activities
being carried out: Research on tsetse flies, livestock ticks, sandfly as
a vector of leishmoniasis, crop pests of maize, rice
and cowpea; Post-doctoral training, post-graduate and
institute staff development training.

New activities planned:

Publications: Annual report, newsletter (quarterly), "Insect Science
and its Application" journal, "Current Themes in
Insect Science" book series, workshop proceedings,
brochures.

Sources of Support: UN agencies, government aid agencies and private
foundations. These donors have established the
sponsoring group for the ICIPE (SGI) with a
secretariat at the World Bank, Washington, USA.

Fixed Experimental stations
and their activities: Mbita point field station: Main research is on crop
pests, other activities on livestock ticks, tsetse
flies and training.

Source of Information: R

Code: L408

Name: Western Agricultural Research Station

Address: P.O. Box 169, Kakamega,
KENYA

Cable/Telex:

Telephone:

Name of the Head of
the Organ: Mr. J. Makatiane

Title: Officer-in-Charge

No. of Professionals:

Main Internal Organization:

Subject Areas of Concern: Agronomy. Plant populations. Fertilizers. Weed control.

Specific activities
being carried out:

New activities planned:

Publications:

Sources of Support:

Fixed Experimental stations
and their activities:

Source of Information: (1)

Code: L409

Name: International Council for Research in Agroforestry (ICRAF)

Address: P.O. Box 30677, Nairobi, KENYA

Cable/Telex: ICRAF/22048

Telephone: 298 67, 33 23 04, 33 28 59, 298 68, 298 69

Name of the Head of the Organ: Dr. B. Lundgren

Title: Director

No. of Professionals: 25

Main Internal Organization: Programmes of: Agroforestry systems; Agroforestry technology; Field station-Machakos; Information services; Training; Collaborative and special projects; Agroforestry Advisory unit.

Subject Areas of Concern: Agroforestry. Land use. Information. Training.

Specific activities being carried out: Development of methodologies for identifying constraints in land-use systems; Systematic collection and assessment of agroforestry data; Efficient dissemination of information and training.

New activities planned: Development of agroforestry network for application and validation of methodologies, and technology generation.

Publications: Books, proceedings, reviews, monographs, periodicals and newsletter.

Sources of Support: Governments, foundations, donor agencies and trusts.

Fixed Experimental stations and their activities: At Machakos, Kenya: Agroforestry demonstrations and trials, agrometeorological data monitoring.

Source of Information: R

Code: L410

Name: Kenya Rangeland Ecological Monitoring Unit
(KREMU)

Address: P.O. Box 47146, Nairobi,
KENYA

Cable/Telex:

Telephone: 54 12 60/54 12 61

Name of the Head of
the Organ: Mr. D.K. Andere

Title: Director

No. of Professionals: 22

Main Internal Organization:

Subject Areas of Concern: Land use. Land survey. Vegetation. Forests. Livestock.
Animal populations. Rangelands. Wildlife. Fuel wood.

Specific activities
being carried out: Surveys and monitoring of land use; Studies on the
effects of human activity and animal populations on
the Kenya Rangelands; Assessment of fuelwood potential
and distribution; Forest cover changes.

New activities planned:

Publications: Monographs, technical activity reports, newsletter.

Sources of Support: Government.

Fixed Experimental stations
and their activities:

Source of Information: R

Code: L411

Name: Kenya Soil Survey

Address: National Agricultural Laboratories,
P.O. Box 14733, Nairobi,
KENYA

Cable/Telex:

Telephone: 482 11-4, 495 01-2

Name of the Head of
the Organ: Mr. F.N. Muchena

Title: Head

No. of Professionals: 34

Main Internal Organization:

Subject Areas of Concern: Soil survey. Land evaluation. Land classification.
Agronomy. Climatology. Vegetation. Land use. Soil
management. Soil erosion. Mapping and cartography.

Specific activities
being carried out: Agroclimatological analysis; Soil analysis; Land
classification; Land use surveys.

New activities planned: Research and inventory of soil resources.

Publications: Soil reports, technical papers.

Sources of Support: Government.

Fixed Experimental stations
and their activities: Itself.

Source of Information: R

Code: L413

Name: National Environment and Human Settlements
Secretariat

Address: P.O. Box 67839, Nairobi,
KENYA

Cable/Telex: ASILI/-

Telephone: 33 23 83

**Name of the Head of
the Organ:** Mr. D.R. Kamau

Title: Director

No. of Professionals: 60

Main Internal Organization:

Subject Areas of Concern: Settlements. Health. Pollution. Environment.
Environmental education. Energy. Appropriate
technology. Desertification. Rural development and
planning. Natural resources.

**Specific activities
being carried out:**

New activities planned:

Publications: Newsletter, district environmental assessment reports,
environmental brochures and posters, periodic state of
the environment reports, papers on various
environmental issues.

Sources of Support: Government.

**Fixed Experimental stations
and their activities:** None.

Source of Information: R

Code: L414

Name: Forestry Research Department

Address: P.O. Box 74, Kikuyu,
KENYA

Cable/Telex:

Telephone: (0154) 32173 or 32220

Name of the Head of the Organ: Dr. J.A. Odera

Title: Director

No. of Professionals: 30

Main Internal Organization:

Subject Areas of Concern: Afforestation. Environment. Forestry. Soil science. Seeds. Plant pathology. Entomology. Forest products. Agroforestry.

Specific activities being carried out: Several projects within the subject areas mentioned above.

New activities planned: Further species screening and management options for afforestation of arid and semi-arid areas.

Publications: Newsletter, "East African Agricultural and Forestry Journal" and technical notes.

Sources of Support: Government and technical aid.

Fixed Experimental stations and their activities: Nine stations: Forest products research, dry lands, coastal low lands, highlands and agroforestry.

Source of Information: R

Code: L415

Name: Dept. of Forestry,
University of Nairobi

Address: P.O. Box 30187, Nairobi,
KENYA

Cable/Telex:

Telephone:

Name of the Head of
the Organ: Dr. F. Owino

Title: Chairman

No. of Professionals:

Main Internal Organization:

Subject Areas of Concern: Forestry. Forestry management. Afforestation.

Specific activities
being carried out: Dryland afforestation project.

New activities planned:

Publications:

Sources of Support:

Fixed Experimental stations
and their activities:

Source of Information: (1)

Code: L416

Name: UNESCO Kenya Arid Lands Research Station (KALRES)

Address: P.O. Box 147, Marsabit
KENYA

Cable/Telex: KALRI MARSABIT

Telephone: 40 or 120 (Marsabit)

Name of the Head of the Organ: Mr. W.J. Lusigi

Title: Chief Technical Adviser

No. of Professionals: Six

Main Internal Organization:

Subject Areas of Concern: Ecology. Land degradation. Arid lands. Rural development. Training and education. Rangelands. Agriculture.

Specific activities being carried out: Research, monitoring, training, demonstration, pre-extension and guiding of integrated development projects in arid lands.

New activities planned: Desertification Control project with UNEP.

Publications: Technical reports.

Sources of Support: Funds in trust to UNESCO by F.R.Germany.

Fixed Experimental stations and their activities:

Source of Information: R

Code: L417

Name: African NGOs Environment Network (ANEN)

Address: c/o P.O. Box 53844, Nairobi
KENYA

Cable/Telex:

Telephone: 749747

Name of the Head of the Organ: Mr. Jimoh Omo-Fadaka

Title: Co-ordinator

No. of Professionals: 4

Main Internal Organization:

Subject Areas of Concern: Afforestation. Deforestation. Renewable energy. Natural resources. Population. Rural development. Desertification. Soil conservation. Training and education. Technology transfer.

Specific activities being carried out: To strengthen communication and co-operation between NGOs and governments in Africa.

New activities planned: To follow-up the plan of action and resolutions of 1977 UN Conference on Desertification.

Publications: "ECO-AFRICA" (bi-monthly), booklets.

Sources of Support: UNEP, Governments, Foundations, etc.

Fixed Experimental stations and their activities:

Source of Information: R

Code: L418

Name: Catholic Diocese of Meru

Address: P.O. Box 16, Meru,
KENYA

Cable/Telex:

Telephone: 202 61

Name of the Head of
the Organ: Bishop S. Njiru c/o Rev. A. Mbiko

Title: Diocesan Administrator

No. of Professionals: 10

Main Internal Organization:

Subject Areas of Concern: Afforestation. Agriculture. Tree planting.

Specific activities
being carried out: Afforestation and agriculture in semi-arid and
marginal lands of Meru, Isiolo and Embu districts;
Tree planting in Ruiru and Kamujini.

New activities planned:

Publications: Diocesan newsletter.

Sources of Support: Cebeno, Catholic Organization of Canada - Misserego.

Fixed Experimental stations
and their activities: Ruiru experimental plot.

Source of Information: R

Code: L425

Name: Wildlife Clubs of Kenya

Address: P.O. Box 40658, Nairobi,
KENYA

Cable/Telex:

Telephone: 74 25 64

Name of the Head of
the Organ: N. Chumo

Title: National Organiser

No. of Professionals: 3

Main Internal Organization:

Subject Areas of Concern: Conservation. Wildlife. Environment. Environmental
education.

Specific activities
being carried out:

New activities planned: "Komba Magazine" (newsletter).

Publications:

Sources of Support: Government, NGOs and international agencies.

Fixed Experimental stations
and their activities: - Nairobi: HQ;
- Kisumu: Field operation;
- Nakuru: Youth hostel;
- Langata: Youth hostel.

Source of Information: R

Code: L426

Name: Green Belt Movement (The)

Address: P.O. Box 67545, Nairobi,
KENYA

Cable/Telex:

Telephone: 246 34

**Name of the Head of
the Organ:** Prof. Wangari Maathai

Title: Co-ordinator

No. of Professionals: One.

Main Internal Organization:

Subject Areas of Concern: Trees. Grazing. Greenbelts.

**Specific activities
being carried out:** Tree planting.

New activities planned: Zero grazing.

Publications: "The Greenbelt"

Sources of Support: NGO's, foundations.

**Fixed Experimental stations
and their activities:** None.

Source of Information: R

Code: L427

Name: Inter-African Bureau for Animal Resources of the OAU

Address: P.O. Box 30786, Nairobi, KENYA

Cable/Telex: IBAR/NAIROBI/-

Telephone: 33 85 44

Name of the Head of the Organ: Dr. W.N. Masiga

Title: Director/Head of OAU Mission in Kenya

No. of Professionals: 7

Main Internal Organization:

Subject Areas of Concern: Rangelands. Animals. Pastoralism. Land management. Land resources. Savannas. Animal health. Animal production.

Specific activities being carried out:

New activities planned:

Publications: Bulletin on animal health and production in Africa, monthly information leaflets.

Sources of Support: Contribution from OAU member states.

Fixed Experimental stations and their activities:

Source of Information: R

Code: L428

Name: Department of Geography,
Kenyatta University College

Address: P.O. Box 43844, Nairobi,
KENYA

Cable/Telex:

Telephone: 817356 Extn. 321 or 315

**Name of the Head of
the Organ:** Prof. C. Nyamweru

Title: Chairman of Geography

No. of Professionals: 14

Main Internal Organization:

Subject Areas of Concern: Training and education in environmental lands.
Geography. Hydrology. Geomorphology. Climatology.
Desertification.

**Specific activities
being carried out:** Teaching areas: geomorphology, hydrology, rural
geography, bio-geography, agricultural geography,
climatology; Research includes arid areas of Kenya and
desertification in East Africa; Also a M.Ed.
Environmental Degree, established since 1984.

New activities planned:

Publications:

Sources of Support:

**Fixed Experimental stations
and their activities:**

Source of Information: R

Code: L429

Name: Range Management Unit,
Ministry of Agriculture and Livestock
Development

Address: P.O. Box 30028, Nairobi,
KENYA

Cable/Telex:

Telephone:

Name of the Head of
the Organ: Mr. L.J. Ayuko

Title: Director

No. of Professionals:

Main Internal Organization:

Subject Areas of Concern: Grazing. Livestock. Rangeland. Pastures. Grasslands.
Land management. Pastoralism.

Specific activities
being carried out: Implementation of a project on grazing block dev.in
the northeastern province and Isiolo, Kenya; Carrying
out government policies concerning range development
and management.

New activities planned:

Publications:

Sources of Support:

Fixed Experimental stations
and their activities:

Source of Information: (1)

Code: L430

Name: Moi University, Dept. of Forestry

Address: P.O. Box 3900, Eldoret,
KENYA

Cable/Telex: -/35047

Telephone: 316 60, 318 81

Name of the Head of
the Organ: Prof. D. Odhiambo

Title: Vice Chancellor

No. of Professionals: 20

Main Internal Organization:

Subject Areas of Concern: Afforestation. Forest management. Planting management.
Forest products. Training and education in lands and
forests. Agroforestry. Drought tolerance. Wood tech..

Specific activities
being carried out: Arid lands afforestation; Development of drought
resistant species and provenances; Site preparation
techniques; Woodlot and plantation management in arid
and semi-arid zones.

New activities planned: Research agroforestry packages.

Publications: Research reports and publications in local and
international journals.

Sources of Support: Government and several donor agencies.

Fixed Experimental stations
and their activities: - At Gede; Machakos; Marigat; Katilu; Eldoret;
and Ramogi: Comparative growth trials.

Source of Information: R

Code: L431

Name: Desertification Control Programme Activity Centre,
United Nations Environment Programme (UNEP)

Address: P.O. Box 30552, Nairobi
KENYA

Cable/Telex: UNITERRA/22068

Telephone: 33 39 30, 52 06 00

Name of the Head of
the Organ: Mr. R. N'Daw

Title: Director

No. of Professionals: Seven

Main Internal Organization: Unit within UNEP.

Subject Areas of Concern: Training and education in soils, environment and
forestry. Desertification control. Desert soils.
Desert ecology. Arid land management and development.
Afforestation. Erosion control. Forestry. Land
management. Land use. Mapping and cartography. Soil
erosion. Soil management. Sand dunes.

Specific activities
being carried out: Supporting training programmes; Creating a
desertification information system and database;
Assisting countries to develop national plans and good
land use policy; Creating regional networks of NGO's,
research and training centres; Sand dune fixation
projects; Afforestation activities; Funding various
projects.

New activities planned: Making films and audio-visual materials on
desertification, formulating and implementing pilot
demonstration of good land use projects, supporting
IPAL projects in India and Turkmen in USSR,
Establishing national desertification assessment,
mapping and database activities, various training
programmes and desertification control projects.

Publications: "Desertification Control Bulletin" (bi-annual),
compendia of institutions, organizations, NGOs, etc.
concerned with desertification, teaching and
management manuals.

Sources of Support: United Nations Regular Budget and voluntary
contributions from member states to the Environment
Fund.

Fixed Experimental stations
and their activities: None.

Source of Information: R

Code: L500

Name: Agricultural Research Division

Address: P.O. Box 829, Maseru,
LESOTHO

Cable/Telex: 4221

Telephone: 32 23 72

Name of the Head of
the Organ: Mr. W.P. Ntsekhe

Title: Director

No. of Professionals: 30

Main Internal Organization:

Subject Areas of Concern: Drought tolerance. Rainfed agriculture. Range
management. Livestock. Agriculture. Agronomy.

Specific activities
being carried out: Crop experiments. Range management experiments.

New activities planned: Construction of small dams for horticultural and
livestock use.

Publications: Newsletter, bulletins, hand-books, reports.

Sources of Support: Government, USAID (sponsored project), SADCC.

Fixed Experimental stations
and their activities: One main re rch station and ten sub-stations.

Source of Information: R

Code: L501

Name: Conservation and Forestry Div.,

Address: P.O. Box 92, Maseru 100,
LESOTHO

Cable/Telex:

Telephone: 32 28 76, or 32 36 00

Name of the Head of
the Organ: M.J. Masilo

Title: Director of Conservation and Forestry.

No. of Professionals: 28

Main Internal Organization:

Subject Areas of Concern: Soil surveys. Conservation. Training and education in
environment and soils. Soil classification. Forestry.
Land use. Soil management. Forest management. Nature
protection.

Specific activities
being carried out: Soil surveys; Conservation planning; Education and
training for public and schools; Biological and
structural soil conservation measures; Land use and
forestry planning.

New activities planned: Same as above but in new areas of the country.

Publications: Monographs, technical reports and newsletter.

Sources of Support: Government, USAID, SIDA.

Fixed Experimental stations
and their activities: None.

Source of Information: R

Code: L502

Name: National University of Lesotho,
Dept. of Geography

Address: P.O. Box 180, Roma,
LESOTHO

Cable/Telex: UNITER, ROMA, LESOTHO/-

Telephone: 201

**Name of the Head of
the Organ:** O.K. Chakela

Title: Head of Dept.

No. of Professionals: 13

Main Internal Organization:

Subject Areas of Concern: Climatology. Hydrology. Forestry. Soil science.
Ecology. Conservation. Rangelands. Environment.
Erosion control. Land use. Irrigation. Training
and education.

**Specific activities
being carried out:** Research activities include Soil erosion; Irrigation
schemes; River basin development and Land use planning.

New activities planned:

Publications: Monographs and technical reports.

Sources of Support:

**Fixed Experimental stations
and their activities:**

Source of Information: (1)

Code: L503

Name: Range Management Division
Ministry of Agriculture

Address: P.O. Box 92, Maseru 100,
LESOTHO

Cable/Telex:

Telephone: 32 51 87

Name of the Head of
the Organ: B. Motsamai

Title: Chief Range Management Officer

No. of Professionals: 7

Main Internal Organization:

Subject Areas of Concern: Rangelands. Grazing systems. Land management. Mapping
and cartography. Range grasses. Vegetation. Shrubs.

Specific activities
being carried out: Determination of range species composition; Carrying
capacities; Degree use; Establishment of proper
stocking rates.

New activities planned: Introduction of grazing fees, grazing permit control,
shrub control, seeding of denuded areas.

Publications: Vegetation map, technical bulletins.

Sources of Support: Government and USAID.

Fixed Experimental stations
and their activities: Agricultural Research station at Maseru: Integrated
farming systems research to solve farmers' problems.

Source of Information: R

Code: L504

Name: Department of Lands, Surveys and
Physical Planning

Address: P.O. Box 876, Maseru,
LESOTHO

Cable/Telex:

Telephone: (0501) 32 23 76

Name of the Head of
the Organ: A. Mosaase

Title: Commissioner of Lands

No. of Professionals: 10

Main Internal Organization: Divisions of: Land Administration; Land Survey; Town
and Country Planning.

Subject Areas of Concern:

Specific activities
being carried out: Advice on land policy and land management; Mapping
requirements for development projects; Cadastral
surveying for title purposes; Town planning and
regional planning; Preparation of development
proposals.

New activities planned: Government.

Publications: None.

Sources of Support:

Fixed Experimental stations
and their activities: None.

Source of Information: R

Code: L505

Name: Lesotho Agricultural College

Address: P.B. A4, Maseru 100,
LESOTHO

Cable/Telex: -/-

Telephone: 31 52 20

Name of the Head of
the Organ: T.M. Motsoene

Title: Principal

No. of Professionals: 34

Main Internal Organization:

Subject Areas of Concern: Agriculture. Training and education.

Specific activities
being carried out: Training of future extension personnel for the
Ministry of Agriculture.

New activities planned: Specialized training in agro-industry.

Publications: Monographs, newsletters.

Sources of Support: Government.

Fixed Experimental stations
and their activities: None.

Source of Information: R

Code: L507

Name: Department of Water Affairs

Address: P.O. Box 772, Maseru,
LESOTHO

Cable/Telex:

Telephone: 32 39 47

Name of the Head of
the Organ: S. Makhoalibe

Title: Head Water Affairs

No. of Professionals: 12

Main Internal Organization: Divisions of Hydrology and Meteorology.

Subject Areas of Concern: Hydrology. Runoff. Sediments. Soil-water movement.
Streams. Climatology. Water resources. Land use.
Meteorology.

Specific activities
being carried out: Rainfall data collection; Stream flow; Sediment
measurement.

New activities planned: Land use systems delineation, remote sensing,
reservoir sedimentation studies.

Publications: Climatological bulletin, hydrological yearbook, water
resources monographs, sediment transport publications.

Sources of Support: Government, UNDP, WMO.

Fixed Experimental stations
and their activities:

Source of Information: R

Code: L600

Name: Agricultural Research Centre

Address: P.O. Box 358, Tripoli,
LIBYA

Cable/Telex:

Telephone:

Name of the Head of
the Organ:

Title: Director

No. of Professionals:

Main Internal Organization:

Subject Areas of Concern: Irrigation. Natural Resources. Soil aspects. Forestry.
Irrigation. Animal production. Saline soils.

Specific activities
being carried out: Research programme on soil salinity and irrigation;
Research on field crops and plant protection.

New activities planned:

Publications:

Sources of Support:

Fixed Experimental stations
and their activities:

Source of Information: (1)

Code: L601

Name: Alfatch University

Address: P.O. Box 2547, Tripoli,
LIBYA

Cable/Telex:

Telephone:

Name of the Head of
the Organ: Dr. A. Guima

Title: Dean

No. of Professionals:

Main Internal Organization:

Subject Areas of Concern: Agronomy. Salinisation. Drought. Dry farming.

Specific activities
being carried out: Research on drought resistant and salt tolerant
plants; Studies on dryland farming.

New activities planned:

Publications: Research reports and notes.

Sources of Support:

Fixed Experimental stations
and their activities:

Source of Information: (1)

Code: L602

Name: Secretariat of Agrarian and Land Reform

Address: Tripoli,
LIBYA

Cable/Telex:

Telephone:

Name of the Head of
the Organ:

Title: Director.

No. of Professionals:

Main Internal Organization:

Subject Areas of Concern: Land reclamation. Sand dunes. Afforestation.

Specific activities
being carried out: Sand dune fixation in the Jamahiriya project; Sand
dune fixation in the coastal region.

New activities planned:

Publications: Project reports.

Sources of Support:

Fixed Experimental stations
and their activities:

Source of Information: (1)

Code: L700

Name: Association pour la Sauvegarde de
l'Environnement

Address: B.P. 412, Antsiranana,
MADAGASCAR

Cable/Telex:

Telephone:

Name of the Head of
the Organ: Mme M. Narove

Title: Présidente

No. of Professionals: Four

Main Internal Organization: NGO

Subject Areas of Concern: Parks and reserves. Environment. Vegetation. Wildlife.
Nature protection. Mountains.

Specific activities
being carried out: Fauna and flora studies; Social and cultural aspects;
Carrying out a WWF project on national park protection
of the Montagne d'Ambre; Awareness programme on nature
degradation.

New activities planned: Preparation of an international conference on
protection of nature in Tananarive.

Publications: "LIVRET".

Sources of Support: Auto-financing.

Fixed Experimental stations
and their activities:

Source of Information: R

Code: L702

Name: Centre de Formation Professionnelle Forestière de Morondava (FOFAMPIALA)

Address: B.P. 117, Morondava 619, MADAGASCAR

Cable/Telex: CFPF Morondava/-

Telephone: 520 96

Name of the Head of the Organ: R.M. Pasteur

Title: Ingénieur des Eaux et Forêts, Directeur.

No. of Professionals: 9

Main Internal Organization:

Subject Areas of Concern: Forestry. Forests. Forest products. Training and education. Forest management. Agroforestry.

Specific activities being carried out: Agroforestry, planting and natural regeneration of forests; Intensive forestry research; Training of professionals in saw mill activities and rational forest exploitation.

New activities planned:

Publications: Bulletin, monographs, technical notes.

Sources of Support: Own resources, Government, Swiss Co-operation.

Fixed Experimental stations and their activities: A forest concession near Morondava.

Source of Information: R

Code: L703

Name: Département des Forêts
Université de Madagascar

Address: EESSA, Université de Madagascar
B.P.175, Antananarivo 101,
MADAGASCAR

Cable/Telex:

Telephone: 241 14

Name of the Head of the Organ: J. Andriamampianina

Title: Ingénieur en Chef des Eaux et Forêts.

No. of Professionals: 4

Main Internal Organization:

Subject Areas of Concern: Training and education in land, forests and water.
Forestry. Forest management.

Specific activities being carried out: Teaching forestry and training forest and water engineers.

New activities planned:

Publications:

Sources of Support: Government.

Fixed Experimental stations and their activities: Water and forests administration stations.

Source of Information: R

Code: L704

Name: Etablissement d'Enseignement
Superieur des Sciences Agronomiques (EESSA)

Address: B.P. 175-101, Antananarivo,
MADAGASCAR

Cable/Telex:

Telephone: 260 extn. 407

Name of the Head of
the Organ: G. Ravelojoana

Title: President de l'EESSA

No. of Professionals: 28

Main Internal Organization:

Subject Areas of Concern: Agriculture. Training and education. Animal husbandry.
Forestry. Food conservation. Social aspects. Animal
genetics. Agroforestry. Soil management and conserv..
Wood management. Plant breeding. Forest fires.

Specific activities
being carried out: Courses leading to B.Sc. and post-graduate degrees in
agronomy; Research and training on improvement of
pastures, genetic breeding, food industries,
improvement of wood species, effects of bush fires,
soil protection, soil amendment and farm management.

New activities planned:

Publications: "Terre Malgache" (annual), "Bulletin de l'Elevage".

Sources of Support: Government.

Fixed Experimental stations
and their activities:

Source of Information: (1)

Code: L705

Name: Laboratoire de Géographie

Address: Université, B.P. 907,
Tananarive,
MADAGASCAR

Cable/Telex:

Telephone:

Name of the Head of
the Organ: Prof. G. Donque

Title: Directeur

No. of Professionals:

Main Internal Organization:

Subject Areas of Concern: Geography. Erosion. Urban areas.

Specific activities
being carried out: Urban studies; Litoral studies; Research on erosion;
Geography.

New activities planned:

Publications: "Madagascar Revue de Géographie" (bi-annual).

Sources of Support:

Fixed Experimental stations
and their activities:

Source of Information: R

Code: L709

Name: Ministère de la Production Agricole
et de la Réforme Agraire

Address: B.P. 842, Antananarivo,
MADAGASCAR

Cable/Telex:

Telephone: 247 10

Name of the Head of
the Organ: M.R. Raphael

Title: Secrétaire Général

No. of Professionals: 5

Main Internal Organization:

Subject Areas of Concern: Reafforestation. Hydrology. Soil management. Water
conservation. Land conservation. Irrigation.
Agriculture. Forestry. Pastures. Grasslands.

Specific activities
being carried out: Hydrological studies; Reafforestation; Water
conservation techniques; Establishment, improvement
and protection of pastures;; Construction of weirs and
wind breaks.

New activities planned:

Publications:

Sources of Support:

Fixed Experimental stations
and their activities:

Source of Information: (1)

Code: L710

Name: Fonds Mondial pour la Nature Malagasy

Address: BP 4373, Antananarivo,
MADAGASCAR

Cable/Telex:

Telephone:

Name of the Head of
the Organ: B. Vaohita

Title: The W.W.F. Representative.

No. of Professionals:

Main Internal Organization:

Subject Areas of Concern: Nature Protection. Conservation

Specific activities
being carried out: Promotion and co-ordination of nature and natural
science activities in Madagascar; Liaison, on behalf
of the Government, with WWF and IUCN including
planning, formulation and monitoring of conservation
activities funded by these and other co-operating
institutions.

New activities planned:

Publications:

Sources of Support:

Fixed Experimental stations
and their activities:

Source of Information: (1)

Code: L801

Name: Direction Nationale des Eaux et Forêts

Address: B.P. 275, Bamako,
MALI

Cable/Telex:

Telephone: 22 58 50, 22 59 73.

Name of the Head of
the Organ: N.N. Sanogho

Title: Ingénieur des Eaux et Forêts

No. of Professionals: 549

Main Internal Organization: Seven technical divisions at national level:
Environment; Projects and programmes; Tree planting
and development; Water and soil conservation;
Fisheries; Hunting; and Personnel and equipment;
Eight departmental offices at regional level.

Subject Areas of Concern: Reafforestation. Fisheries. Natural resources. Nature
protection. Fauna. Forest management. Forestry.
Wildlife. Hydrology. Irrigation. Biology.

Specific activities
being carried out: Research and training in reafforestation; Fisheries
development; Fauna management.

New activities planned: Awareness, education and extension of current
activities.

Publications: "Journal Sahel Vert".

Sources of Support: Government funds for administration, external funds
for development of projects.

Fixed Experimental stations
and their activities: - I.E.R.: Research and development of agricultural
fruit products;
- Niono: Research on irrigated plantations;
- Mopti: Laboratory of hydrobiology.

Source of Information: R

Code: L802

Name: ILCA/CIPEA

Address: B.P. 60, Bamako,
MALI

Cable/Telex: ILCA-MALI /-

Telephone: 22 21 77

**Name of the Head of
the Organ:** A.C. Diallo

Title: Directeur du Programme Mali

No. of Professionals: 12

Main Internal Organization:

Subject Areas of Concern: Forage grasses. Forage production. Agronomy. Pastures.
Pastoralism. Animal diseases. Animal health.
Rangelands. Remote sensing. Land management. Cattle.
Animal production. Grazing. Grasslands. Animal
breeding.

**Specific activities
being carried out:** Forage agronomy in the Sahelian zone; Pastoral
epidemiology; Agropastoral systems; Improvement of
natural rangeland management; Remote sensing and
cattle breeding.

New activities planned:

Publications: International programme publications, programme
document series "AZ: Arid Zone".

Sources of Support: CGIAR, World Bank, IFAD and donor countries.
ICLA/CIPEA is an international organization.

**Fixed Experimental stations
and their activities:**

- Niono;
- Banamba;
- Hambori, Gassi and Nojti: remote sensing,
monitoring of pasture lands.

Source of Information: R

Code: L804

Name: Institut National de la Recherche Zootechnique
Forestière et Hydrobiologique

Address: B.P. 1704, Bamako,
Sotuba,
MALI

Cable/Telex:

Telephone: 22 64 28

Name of the Head of
the Organ: Dr. B. Diakité

Title: Vétérinaire Inspecteur

No. of Professionals: 88

Main Internal Organization:

Subject Areas of Concern: Forestry. Fisheries. Pastures. Plant genetics.
Irrigated agriculture. Animal production. Animal
health. Forage plants. Forage production. Savannas.
Livestock. Vegetation. Plant distribution. Natural
resources.

Specific activities
being carried out: Forest research on areas of irrigated plantations;
Studies on Sahelian pastures and genetic improvement.

New activities planned: Agrostology, lethyological research, studies on
acacia, gommier and nutritive value of pastures.

Publications: Technical reports of commissions and research
committees.

Sources of Support: Government and external financing.

Fixed Experimental stations
and their activities:

- Centre de Recherche Zootechnique;
- Station d'Elevage et de Recherche Zootechnique du
Sahel;
- Station d'Elevage et de Recherche Zootechnique
du Toronke;
- Station d'Essais Fourrager de Mopti-nord;
- Centre de Technologie des Bois de Savanne;
- Station de Recherche sur la Biologie des Essences
Autochtones;
- Station de Recherche sur les Plantations Forestières
Lorguées;
- Laboratoire d'Hydrobiologie de Mopti;
- Project Inventaire des Ressources Terrestres.

Source of Information: R

Code: L805

Name: Institut Polytechnique Rural de Katibongou

Address: BP 6, Koulikoro,
MALI

Cable/Telex:

Telephone:

Name of the Head of
the Organ: K. Sanogo

Title: Directeur

No. of Professionals:

Main Internal Organization:

Subject Areas of Concern: Agronomy. Training and education in agriculture, land
forestry and soils. Pastoralism. Forestry. Animal
breeding. Livestock.

Specific activities
being carried out:

New activities planned:

Publications:

Sources of Support:

Fixed Experimental stations
and their activities:

Source of Information: (1)

Code: L806

Name: Institut du Sahel

Address: B.P. 1530, Bamako,
MALI

Cable/Telex: -/ 432 INSAN BAMAKO MALI

Telephone: 22 21 48, 22 21 78

Name of the Head of
the Organ: R.A. Thomas

Title: Directeur

No. of Professionals: 21

Main Internal Organization: Inter-state institution with three departments.

Subject Areas of Concern: Crop production. Crops. Ecology. Environment.
Irrigation systems. Agronomy. Dry farming.
Agriculture. Livestock. Ecology. Horticulture.
Vegetation. Agricultural mechanization. Pastoralism.
Rural development and planning. Forestry. Demography.
Human health. Social aspects. Training and education.

Specific activities
being carried out: Implementation of several regional projects to improve
information exchange and standardisation of working
methods; Establishment of an information network in
different fields.

New activities planned: Planning research, training and information,
preparation of legislation for the sub-regions.

Publications: "INSAH-INFO", working reports, bibliographies and
several other documents.

Sources of Support: Member governments, co-operation agencies.

Fixed Experimental stations
and their activities:

Source of Information: R

Code: L807

Name: Laboratoire de l'Energie Solaire

Address: B.P. 134, Darsalam,
Bamako
MALI

Cable/Telex: PB 134 BAMAKO/-P

Telephone: 22 30 41

**Name of the Head of
the Organ:** C. Traoré

Title: Directeur

No. of Professionals: 19

Main Internal Organization:

Subject Areas of Concern: Solar energy. Wind power. Biogas technology.

**Specific activities
being carried out:** Design, development and laboratory and on site tests
on the use of photovoltaic cells, water heating,
eolian (pumps) and biomass equipment.

New activities planned: Popularization of solar-energy technology use.

Publications:

Sources of Support: Government, USAID, CRDI.

**Fixed Experimental stations
and their activities:**

Source of Information: R

Code: L808

Name: Service Météorologique

Address: B.P. 237, Bamako,
MALI

Cable/Telex:

Telephone: 22 29 25, 22 25 96

Name of the Head of
the Organ: Mr. K. Konaré

Title: Ingénieur de la Météorologie

No. of Professionals: 50

Main Internal Organization:

Subject Areas of Concern: Climatology. Agricultural climatology. Desertification
Control. Wind erosion.

Specific activities
being carried out: Studies on drought and agro-climatology.

New activities planned: Studies on eolian and hydrological phenomena in
relation to the desertification process in Mali.

Publications: Agrometeorological bulletin and monthly climatological
bulletin.

Sources of Support: Government.

Fixed Experimental stations
and their activities:

Source of Information: R

Code: L811

Name: Protection des Vegetaux

Address: B.P. 1560, Bamako,
MALI

Cable/Telex:

Telephone: 22 24 04

Name of the Head of
the Organ: Mr. M. Sissoko

Title: Ingénieur d'Agriculture

No. of Professionals: 35

Main Internal Organization:

Subject Areas of Concern: Post-harvest conservation. Horticulture. Food
conservation.

Specific activities
being carried out: Reduction of post harvest losses.

New activities planned:

Publications:

Sources of Support: Government.

Fixed Experimental stations
and their activities:

Source of Information: R

Code: L812

Name: Groupe de Recherche et d'Applications Techniques

Address: B.P. 2502, Bamako,
MALI

Cable/Telex: GRAT BP 2502 BKO/-

Telephone: 22 27 36

Name of the Head of
the Organ: S. Diallo

Title: Directeur

No. of Professionals: 5

Main Internal Organization:

Subject Areas of Concern: Energy. Alternate energy. Biogas technology. Fuelwood.
Wood management. Wood technology. Planting management.
Shrubs.

Specific activities
being carried out: Preparation of report on the energy situation in Mali;
Implementation of biogas digestors for vaccine
refrigeration; Project on crop production for energy
purposes.

New activities planned: Planting of fuelwood species.

Publications: Case studies, energy planning reports.

Sources of Support: International NGOs, foundations and revenue from local
action.

Fixed Experimental stations
and their activities: MOPTI-OOEM: Bioconservation in agro-pastoral
environments.

Source of Information: R

Code: L900

Name: Direction Protection de la Nature

Address: B.P. 170, Nouakchott,
MAURITANIA

Cable/Telex:

Telephone: 520 20 extn: 377

Name of the Head of
the Organ: D.O. Nerzoug

Title: Ingénieur des Eaux et Forêts

No. of Professionals: 185

Main Internal Organization: Part of the Ministry of Rural Development.

Subject Areas of Concern: Conservation. Nature protection. Desertification
control. Land conservation. Wildlife. Sand control.
Soil management. Reafforestation. Sand dunes.
Greenbelts. Oases. Land degradation.

Specific activities
being carried out: Nonakchott green belt; Sand dune fixation project;
Projection activities such as forest police.

New Activities Planned: Oases protection, establishment of green areas, sand
encroachment control, land degradation awareness
activities in rural communities.

Publications: Annual activity report.

Sources of Support: Government, foundations, and fund management.

Fixed Experimental stations
and their activities: - Nouakchott Research Station: Nursery and plantation
techniques.
- Research Station of Botilicouett: Sand dune fixation.

Source of Information: R

Code: L901

Name: Centre National d'Elevage et de
Recherches Vétérinaires (CNERV)

Address: B.P. 167, Nouakchott,
MAURITANIA

Cable/Telex: CNERV BP 167/-

Telephone: 528 03, 527 65

Name of the Head of
the Organ: Dr. D.B. Cisse

Title: Directeur

No. of Professionals: 15

Main Internal Organization:

Subject Areas of Concern: Diseases. Drought. Pastoralism. Grazing. Animal
nutrition. Livestock.

Specific activities
being carried out: Studies on new diseases caused by drought; Research on
animal nutrition and agropastoralism.

New activities planned: Animal nutrition improvement, camel diseases.

Publications: Annual report of activities, reports on certain
diseases.

Sources of Support: Government.

Fixed Experimental stations
and their activities: - Antenne de Kaedi.

Source of Information:

Code: L902

Name: Centre National de Recherche Agronomique et de Développement Agricole de Kaedi

Address: P.B. 22, Kaedi
MAURITANIA

Cable/Telex: CNRADA-KAEDI PB22/-

Telephone: 210

Name of the Head of the Organ: M. Diarra

Title: Directeur

No. of Professionals: 15

Main Internal Organization: Four technical departments.

Subject Areas of Concern: Plant adaptation. Climate-vegetal relationship. Plant breeding. Plant ecology. Plant growth. Plant studies. Crop response. Cultivation systems. Drought tolerance. Seeds.

Specific activities being carried out: Research on drought resistant plants; Development of production systems and methods; Plant behaviour studies and studies of fruit trees under different parameters such as fertilization, soils and culture methods.

New activities planned: Introduction of new species, experiments with horticultural plants sub production.

Publications: Annual activities report and reports on certain diseases.

Sources of Support: Government.

Fixed Experimental stations and their activities: - Fruit station of RINDAO: Research on fruit species;
- Belinabe station: Research on rice, market gardening and food crops.

Source of Information: R

Code: L905

Name: Direction de la Protection de la Nature,
Ministère du Développement Rural

Address: B.P. 170, Nouakchot,
MAURITANIA

Cable/Telex:

Telephone: 377

Name of the Head of
the Organ: D.O. Merzong

Title: Directeur

No. of Professionals: 132

Main Internal Organization: Directorate and Regional Service Offices.

Subject Areas of Concern: Soil conservation. Vegetation. Soil management. Water
conservation. Water management. Wildlife. Hunting.
Fauna. Trees. Sand dunes. Forests. Forest management.
Forest products.

Specific activities
being carried out: Implementation of techniques for desertification
control; Conservation, protection and improvement of
vegetation cover; Water and forest conservation;
Protection of fauna and hunting control; Tree
planting; Stabilization and fixation of sand dunes;
Exploitation of forests and management.

New activities planned:

Publications: Reports on monthly, quarterly and annual basis.

Sources of Support: Government.

Fixed Experimental stations
and their activities: None.

Source of Information: R

Code: L909

Name: Société Nationale pour le Développement Rural

Address: BP 321, Nouakchott,
MAURITANIA

Cable/Telex: -/807 MTN

Telephone: 521 61, 518 00

Name of the Head of
the Organ: M.B.O. Ahmad

Title: Directeur

No. of Professionals: 35

Main Internal Organization:

Subject Areas of Concern: Irrigation. Hydrology. Agriculture. Rural development
and planning.

Specific activities
being carried out: Studies; Construction and development of irrigation
areas, mainly within the Senegal River Basin.

New activities planned: Preparation and development of 2,000 ha.

Publications: Project studies.

Sources of Support: Government, World Bank, Governments of Netherlands,
Italy and Canada, European Funds for Development,
Saudi Development Funds, Abu Dhabi, IFAD, KFW, GTZ.

Fixed Experimental stations
and their activities:

Source of Information: R

Code: M000

Name: Ecole Nationale Forestière d'Ingénieurs

Address: B.P. 511, Sale,
MOROCCO

Cable/Telex:

Telephone:

Name of the Head of
the Organ: Colonel Tijani

Title: Directeur

No. of Professionals:

Main Internal Organization:

Subject Areas of Concern: Forestry. Mapping and cartography. Agronomy.
Pastoralism. Hydrology. Economics. Rural development
and planning. Reafforestation.

Specific activities
being carried out: Ecological study of Cedrus atlantica manetti in
Morocco; Study on degradation of forests in Morocco;
Study on problems caused by reafforestation.

New activities planned:

Publications: Research reports (irregularly).

Sources of Support:

Fixed Experimental stations
and their activities:

Source of Information: (R)

Code: M001

Name: Station Centrale d'Agronomie Saharienne

Address: B.P. 533, Marrakech,
MOROCCO

Cable/Telex: -/74091 M

Telephone: (04) 311 16, 340 73

Name of the Head of
the Organ: Dr. J. Ahmed

Title: Directeur

No. of Professionals: 10

Main Internal Organization:

Subject Areas of Concern: Agroforestry. Livestock. Pastoralism. Animal
production. Cultivation systems. Desert plants.
Drought tolerance. Land reclamation. Plant adaptation.
Agronomy. Arid lands management and development. Plant
pathology. Oases.

Specific activities
being carried out: Studies of diseases in date palms; Studies on
agricultural rotation; Studies on animal production;
Development of an oasis production system.

New activities planned: Intensification of the work on drought resistant
species and introduction of new desert plant species.

Publications: "Al Awamiq INRA Maroc" - Agronomic research activities
INRA-Morocco.

Sources of Support: Government and international organizations.

Fixed Experimental stations
and their activities:

- Station Experimentale de Zagora: Studies on date
palm;
- Station Experimentale d'Errachidia: Livestock and
agro-forestry;
- Station Experimentale d'Achouria: Livestock and
agro-forestry;
- Station Experimentale de Talsint: Pastoralism.

Source of Information: R

Code: M002

Name: Institut Agronomique et Veterinaire
Hassan II

Address: Rabat-Institut
B.P. 6202
Rabat
MOROCCO

Cable/Telex: AGROVET 31873M/-

Telephone: 717 58

Name of the Head of
the Organ: Dr. M. Sedrati

Title: Directeur

No. of Professionals: 350

Main Internal Organization:

Subject Areas of Concern: Agronomy. Ecosystems. Horticulture. Animal production.
Social aspects. Economics. Rural development and
planning. Training and education.

Specific activities
being carried out: Research on the Sahelian semi-arid and mountain
ecosystems; Research on agronomy, horticulture, food
production, animal production; Socio-economic studies;
Integrated regional development studies; Training
technicians in various areas of agricultural sciences.

New activities planned:

Publications: "Revue Scientifique Internationale", "Les Actes de
l'Institut", theses (about 150 per year), research
reports (about 350 per year).

Sources of Support: Government and International Organisations.

Fixed Experimental stations
and their activities: - At Agadir; Gharb and Tadla.

Source of Information: R

Code: M003

Name: Institut Scientifique

Address: Charia Ibn Batota
P.B. 703, Rabat,
MOROCCO

Cable/Telex:

Telephone:

Name of the Head of
the Organ: Mr. H.H. Msougar

Title: Directeur

No. of Professionals:

Main Internal Organization:

Subject Areas of Concern: Geology. Geomorphology. Mapping. Remote sensing.
Entomology. Animal ecology. Fauna. Flora. Vegetation.
Sand dunes.

Specific activities
being carried out: Study of forest insects attacking the following
species: Tetraclines articulata, Quercus ilex, Quercus
suber and Cedrus atlantica; Study of Lepidopteres;
Study of the vegetation of Merja Sidi Bou Ghaba; Study
of Mehdia dunes vegetation and contribution to Morocco
flora.

New activities planned:

Publications: "Bulletin de l'Institut Scientifique" (annually),
"Travaux de l'Institut Scientifique" (irregular),
"Document de l'Institut Scientifique (irregular).

Sources of Support:

Fixed Experimental stations
and their activities:

Source of Information: (1)

Code: M004

Name: Direction des Eaux et Forêts et de
la Conservation des Sols
Ministère de l'Agriculture

Address: Chella, Rabat
MOROCCO

Cable/Telex:

Telephone:

Name of the Head of
the Organ: Mr. M. Baraca

Title: Directeur

No. of Professionals: 250

Main Internal Organization:

Subject Areas of Concern: Soil Conservation. Afforestation. Land reclamation.
Nature protection. Forest management. Hunting.
Erosion. Sand dunes. Parks and reserves.
Reafforestation.

Specific activities
being carried out: Creation of national parks in Toubkal and Tazek
regions; Analysis of erosion problems in Morocco;
Conducting forest surveys; Fixation of sand dunes in
Essaouira region and reafforestation programme.

New activities planned:

Publications: Technical notes (irregular).

Sources of Support:

Fixed Experimental stations
and their activities:

Source of Information: (1)

Code: M005

Name: Station de Recherche et d'Expérimentation Forestière

Address: P.O. Box 763, Rabat,
Agdal
MOROCCO

Cable/Telex:

Telephone:

Name of the Head of the Organ: Eng. M. Tamri

Title: Director

No. of Professionals: 12

Main Internal Organization:

Subject Areas of Concern: Forestry. Soil Science. Wood technology.
Afforestation. Reforestation. Pastoralism.
Entomology. Soil fertility. Plant adaptation.

Specific activities being carried out: Establishment of reforestation standards for Morocco; Determination of soil-vegetation relationships and selection of species adaptable to each environment in Morocco; Impact analysis of the organic matter caused by Eucalyptus camaldulensis on the fertility of the soil in Mamora and Gharb regions; Studies on the physiological characteristics of the species introduced in arid and semi-arid areas; Determination of the treatments needed for the different forest varieties introduced in Morocco; Analysis of reforestation improvement; Research on forest defoliators.

New activities planned:

Publications: "Annales de la Recherche Forestière en Maroc" (annually).

Sources of Support:

Fixed Experimental stations and their activities:

Source of Information: (1)

Code: M006

Name: Université Mohammed V
Dept. de Biologie,
Faculté des Sciences

Address: B.P. 1014, Rabat
MOROCCO

Cable/Telex: FACSCIENCES RABAT/-

Telephone: 718 34

Name of the Head of
the Organ: M. Saghi

Title: Directeur de departement

No. of Professionals: 100

Main Internal Organization:

Subject Areas of Concern: Animal physiology. Plant physiology. Animal ecology.
Plant ecology. Plant biology.

Specific activities
being carried out: Research activities are carried out on the subjects
mentioned above.

New activities planned:

Publications:

Sources of Support: Government, CNRS (branch).

Fixed Experimental stations
and their activities: Laboratories at the University Mohammed V.

Source of Information: R

Code: M007

Name: Institut National de la Recherche Agronomique

Address: B.P. 4151, Rabat
MOROCCO

Cable/Telex: -/DRA 317-02

Telephone: 726 18, 726 08

Name of the Head of the Organ: H. Faraj

Title: Directeur

No. of Professionals: 250 Engineers

Main Internal Organization:

Subject Areas of Concern: Agronomy. Forage plants. Forage production. Crop response. Crop production. Animal health. Animal production. Oases.

Specific activities being carried out: A research programme on the reconstruction of palm plantations; Agricultural development of cereals and forages in oases; Research on zootechniques.

New activities planned:

Publications: "Les Cahiers de la Recherche Agronomique", annual activity reports, seminar proceedings.

Sources of Support: Government.

Fixed Experimental stations and their activities:

- Station Experimentale Memana;
- " " Zagora;
- " " Errachidia.

Source of Information: R

Code: M009

Name: Direction des Eaux et Forêts et de
la Conservation de Sols

Address: Rabat-Chellah
MOROCCO

Cable/Telex:

Telephone: 625 65 , 629 94

Name of the Head of
the Organ: B.S. Nadim

Title: Ingenieur en Chef

No. of Professionals: 350

Main Internal Organization: Central Direction and provincial services.

Subject Areas of Concern: Erosion control. Afforestation. Forest management.
Forestry. Forests. Land conservation. Desertification
control. Reafforestation..

Specific activities
being carried out: Carrying out the National Plan for reafforestation
(22000 ha/year).

New activities planned: Preparation of a national plan of action to combat
desertification.

Publications: Specific studies, activity reports, "Annales de la
Station de Recherches et d'Experimentations
Forestières".

Sources of Support: Government and international organisations such as
IBRD.

Fixed Experimental stations
and their activities: - Research station and forest experimentation:
Research in forestry.

Source of Information: R

Code: M201

Name: Desert Ecological Research Unit

Address: P.O. Box 953, Walvis Bay 9190,
NAMIBIA

Cable/Telex:

Telephone:

Name of the Head of
the Organ: Dr. O.K. Seely

Title: Director

No. of Professionals: 3

Main Internal Organization:

Subject Areas of Concern: Ecology. Animal ecology. Desert ecology. Desert plants.

Specific activities
being carried out: Basic research on the ecology of the plants and
animals of the Namib desert.

New activities planned:

Publications: "Namib Bulletin" (occasional).

Sources of Support: Government.

Fixed Experimental stations
and their activities: Itself.

Source of Information: R

Code: M300

Name: Centre Régional de Formation et d'Application en Agrométéorologie et Hydrologie Opérationnelle (Centre AGRHYMET)

Address: B.P. 11011, Niamey, NIGER

Cable/Telex: -/AGRHYMET 5448 NI

Telephone: 73 31 16, 73 39 87

Name of the Head of the Organ: C.B. Coly

Title: Directeur Général

No. of Professionals: 82

Main Internal Organization:

Subject Areas of Concern: Meteorology. Hydrology. Agricultural meteorology. Training and education. Agriculture.

Specific activities being carried out: Professional training of: Engineers in hydrology; Senior technicians in agrometeorology; Operators of meteorological instruments (classic and electronic); Modelling and meteorological impact assessment on agriculture.

New activities planned: Regular training courses, seminars.

Publications: Agrometeorological reports and monthly hydrological reports.

Sources of Support: UNDP, donations from USA, Belgium, Switzerland, F.R. Germany, CILSS.

Fixed Experimental stations and their activities: None.

Source of Information: R

Code: M301

Name: Autorité du Bassin du Niger

Address: B.P. 729, Niamey,
NIGER

Cable/Telex: AUBANI/-

Telephone: 72 31 01, 72 31 02, 72 31 03

Name of the Head of
the Organ: I.S. Balde

Title: Secrétaire Exécutif

No. of Professionals: 50

Main Internal Organization:

Subject Areas of Concern: Fluvial process. Hydrology. Rivers. Runoff. Water
engineering. Water management. Sediments.

Specific activities
being carried out: Hydrologic control systems for the Niger river;
Collection of sediment samples from the Niger river.

New activities planned: Preparation of an integrated development plan for the
Niger River Basin.

Publications: Index, bibliographies, reports.

Sources of Support: Member Governments: Benin, Cameroon, Chad, Ivory
Coast, Guinea, Burkina Faso, Mali, Niger, Nigeria.

Fixed Experimental stations
and their activities: None.

Source of Information: R

Code: M302

Name: Département des Recherches Forestières

Address: B.P. 225, Niamey,
NIGER

Cable/Telex:

Telephone: 72 21 33 extn: 49)

Name of the Head of
the Organ: M. Barbier

Title: Directeur

No. of Professionals: 2

Main Internal Organization:

Subject Areas of Concern: Agroforestry. Soil amendment. Conservation. Ecology.
Plant genetics. Soil management.

Specific activities
being carried out:

New activities planned:

Publications:

Sources of Support:

Fixed Experimental stations
and their activities:

Source of Information: (1)

Code: M303

Name: Direction des Forêts et de la Faune

Address: B.P. 578, Niamey,
NIGER

Cable/Telex:

Telephone: 73 33 29

Name of the Head of
the Organ: M. Mamane

Title: Directeur

No. of Professionals: 225

Main Internal Organization: Directorate within the Ministry of Hydrology and
Environment.

Subject Areas of Concern: Conservation. Natural resources. Nature protection.
Forestry. Ecology. Plant genetics. Plant adaptation.
Forest management. Wildlife. Fauna surveys.
Environment. Soil management. Desertification control.

Specific activities
being carried out: Preparation of a plan of action to combat
desertification in Niger, including activities in the
fields of forestry, agriculture and livestock.

New activities planned: Plantations for protecting agricultural production,
fauna assessments and environment protection.

Publications: Annual report and periodical reports on activities
projects and services.

Sources of Support: Government, international organizations and bi-lateral
aid.

Fixed Experimental stations
and their activities: Department de Recherches Forestières de l'INRAN:
Ecology, plant adaptation, plant genetics,
silviculture and forest management, soil conservation.

Source of Information: R

Code: M304

Name: Faculté d'Agronomie,
Université de Niamey

Address: B.P. 10960, Niamey,
NIGER

Cable/Telex: BP 10960 NIAMEY NIGER/-

Telephone: 73 22 90

Name of the Head of
the Organ: Y. Alhassane

Title: Maître Assistant

No. of Professionals: 18

Main Internal Organization:

Subject Areas of Concern: Training and education. Agronomy. Agriculture. Animal
husbandry. Soil sciences. Plants.

Specific activities
being carried out: Education and research.

New activities planned:

Publications:

Sources of Support: Government and foundations.

Fixed Experimental stations
and their activities: Laboratories.

Source of Information: R

Code: M305

Name: Institut National de Recherches Agronomiques
du Niger

Address: B.P. 429, Niamey,
NIGER

Cable/Telex: -/5201 INRANI-NI

Telephone: 72 27 14, 72 20 70, 72 34 34

Name of the Head of
the Organ: Mr. M. Saley

Title: Directeur Général

No. of Professionals: 95

Main Internal Organization: Five research departments.

Subject Areas of Concern: Agriculture. Agroforestry. Agronomy. Crop production.
Crop response. Crops. Cultivation systems. Rural
development and planning. Animal behaviour. Animal
diseases. Animal ecology. Animal health. Animal
husbandry. Animal physiology. Cattle. Animal
production. Grazing. Pastoralism. Pest control in
animals. Plant breeding. Plant ecology. Plant biology.
Pastures. Soil chemistry. Soil physics. Vegetation.
Forestry. Economic development.

Specific activities
being carried out: Agricultural research on millet, sorghum, ground nuts
and rice; Ecological research with reference to soil
cartography, soil chemistry and soil physics;
Veterinarian research particularly on agrostology,
zootechnology, parasitology and bacteriology; Forest
research and rural economics.

New activities planned:

Publications: Animal reports, technical data sheets and reports,
leaflets.

Sources of Support: Government and bilateral co-operation from USAID, FAO,
CILSS, FAC, etc.

Fixed Experimental stations
and their activities: - Tarna, Agadez, Kolo, Ouallan, Bengou, Loassa,
Gabougoura, and Bonkougou: Agricultural research;
- Kirkissoye, Bengou and Tarna: Zootechnical research;
- N'dounga, Niamey Aviation: Forest research.

Source of Information: R

Code: M306

Name: Institut de Recherches en Sciences Humaines (IRSH)

Address: B.P. 318, Niamey,
NIGER

Cable/Telex: -/5258 UNINIM

Telephone: (227) 73 55 41, 73 55 39

Name of the Head of
the Organ: Dr. A.H. Sidikou

Title: Directeur

No. of Professionals: 8

Main Internal Organization: Social aspects. Geography. Rural development and
planning. Ethnology. Human behaviour.

Subject Areas of Concern: Basic investigations in archaeology, sociology,
linguistics and geography, history and traditions.

Specific activities
being carried out: Publication of results of various researches;
Co-operation with similar institutions.

Publications: "Etudes Nigériennes", "Documents des Etudes
Nigériennes", and "Mukarasani".

Sources of Support: Government, UNESCO.

Fixed Experimental stations
and their activities: - Agadez;
- Maradi.

Source of Information: R

Code: M308

Name: Ministère des Affaires Sahériennes et Nomades

Address: B.P. 452, Niamey,
NIGER

Cable/Telex:

Telephone:

Name of the Head of
the Organ:

Title: Secrétaire Permanent.

No. of Professionals:

Main Internal Organization:

Subject Areas of Concern: Migration. Drought. Human health. Training and
education. Nomads.

Specific activities
being carried out: Solving problems of migrations caused by drought.

New activities planned:

Publications:

Sources of Support:

Fixed Experimental stations
and their activities:

Source of Information: (1)

Code: M315

Name: Project Tapis Vert (PTV)

Address: B.P. 2605, Balafon-Niamey,
NIGER

Cable/Telex:

Telephone: 72 27 95

Name of the Head of
the Organ: D. Idrissa

Title: Ingénieur Agronome

No. of Professionals: 6

Main Internal Organization:

Subject Areas of Concern: Agroforestry. Erosion control. Water conservation.
Watershed management. Rural development and planning.
Renewable energy. Appropriate technology. Solar
energy. Biogas technology. Water management. Water
harvesting. Wind erosion. Wind power.

Specific activities
being carried out: Studies on water conservation and watershed
management; Studies on the application of two water
harvesting systems (wind pumps and motor pumps using
biogas); Agroforestry; Extension programme on building
techniques using local materials excluding wood.

New activities planned: Photovoltaic water pump study, Wind erosion study,
Assistance to rural co-operatives for the management
of water use.

Publications: Annual report.

Sources of Support: - PTV Chikal: All activities mentioned above.

Fixed Experimental stations
and their activities:

Source of Information: R

Code: M404

Name: Bayero University
Dept. of Geography

Address: P.M.B. 3011, Kano,
NIGERIA

Cable/Telex: UNIBAYERO KANO

Telephone:

Name of the Head of
the Organ: Prof. M. Mortimore

Title: Professor and Head of Department.

No. of Professionals: 14

Main Internal Organization:

Subject Areas of Concern: Drought. Drought tolerance. Desert soils. Geography.
Hydrology. Rivers. Reservoirs. Energy. Desertification
control.

Specific activities
being carried out: Research on drought; Rural energy production and
consumption; Effects of dams; River basin hydrology
and Harmattan monitoring.

New activities planned:

Publications: Monographs.

Sources of Support: FAO, UNO, University funds.

Fixed Experimental stations
and their activities: - University meteorological station;
- Harmattan deposition site.

Source of Information: R

Code: M405

Name: Federal Department of Forestry

Address: No.6, Ijeh Village, Obalende,
Ikoyi, Lagos
NIGERIA

Cable/Telex:

Telephone: 68 33 24, 68 41 28

Name of the Head of the Organ: A.K. Aladejana

Title: Director of Forestry

No. of Professionals: 20

Main Internal Organization:

Subject Areas of Concern: Sand dunes. Water supply. Water resources. Training and education in lands. Forestry. Desert plants. Desertification control. Plant adaptation. Shelterbelts. Afforestation.

Specific activities being carried out: Shelterbelt plantation development; Communal forestry development; Establishment of nurseries; Extension services and training; Provision of boreholes for water supply; Stabilization of sand dunes.

New activities planned: Introduction of new anti-desertification species eg. jojoba, introduction of fruit tree seedlings, shelterbelt pilot project in Kaduna, establishment of new nurseries, preparing a film documentary of activities, formation of youth foresters clubs in schools.

Publications: Newsletter, technical bulletins, monographs and reports.

Sources of Support: Government.

Fixed Experimental stations and their activities: - Lake Chad Research Institute and Shelterbelt Research Station, Kano: Effects of shelterbelts on agricultural yields and soil improvement, introduction of new species.

Source of Information: R

Code: M407

Name: Forestry Division, Ministry of Agriculture
and Natural Resources

Address: P.M.B. 3022, Kano
NIGERIA

Cable/Telex: None

Telephone: 2197

Name of the Head of
the Organ: Mr. J. Debski

Title: Chief Conservator of Forests

No. of Professionals: 7

Main Internal Organization: Four main units: Forestry; Wildlife; Zoo and Parks.

Subject Areas of Concern: Forestry. Forests. Forest products. Fuel wood. Wood
management. Wood technology. Shelterbelts.

Specific activities
being carried out: Establishment of protective forest shelterbelts, fuel
wood and industrial and protective forest plantations;
Rural woodlots and tree planting activities.

New activities planned: Agroforestry.

Publications: None.

Sources of Support: Government.

Fixed Experimental stations
and their activities: - Forest Shelterbelts Research Station, managed by
the Federal Forestry Research Institute of Nigeria:
experiments in shelterbelts.

Source of Information: R

Code: M408

Name: Forestry Research Institute of Nigeria

Address: P.M.B. 5054, Ibadan,
NIGERIA

Cable/Telex: FORSEARCH/-

Telephone: 41 44 41, 41 40 22, 41 40 73

Name of the Head of
the Organ: Prof. P.R.O. Kio

Title: Director

No. of Professionals: 82

Main Internal Organization:

Subject Areas of Concern: Forestry. Forest management. Training and education.
Conservation. Forest products. Forests. Microclimato-
logy. Afforestation. Shelterbelts.

Specific activities
being carried out: Improvement, conservation and utilization of forests;
Environmental protection and forest education.

New activities planned:

Publications: Research papers: "Forest" and "Savanna" series,
forest products research laboratory reports,
information bulletin.

Sources of Support: Government.

Fixed Experimental stations
and their activities: Shelterbelt Research Station, Kano: Effects of
shelterbelts on growth and yield of agricultural
crops, tree crops and microclimate, afforestation of
difficult sites, socio-economic effects of shelter-
belts.

Source of Information: R

Code: M410

Name: Institute for Agricultural Research

Address: P.M.B. 1044 Samaru-Zaria
NIGERIA

Cable/Telex: -/ZARIA 2571 - 4PBX

Telephone:

Name of the Head of the Organ: J.H. Davies

Title: Director

No. of Professionals: 912

Main Internal Organization:

Subject Areas of Concern: Horticulture. Food conservation. Foods. Conservation. Agricultural mechanization. Crops. Irrigation programmes. Seeds. Plant breeding. Plant pathology. Soil surveys. Agricultural climatology.

Specific activities being carried out: Research.

New activities planned: Seed multiplication and recommendation to farmers.

Publications: "Noma", "Samaru Journal", annual report, miscellaneous papers, Samaru conference papers, test reports, soil survey bulletins.

Sources of Support: Government, consultancy fees.

Fixed Experimental stations and their activities: - At Bakura, Kadawa, Kano and Samaru: Irrigation studies, breeding and testing new crop lines, agronomical and plant pathology, soil surveys, and weather studies.

Source of Information: R

Code: M411

Name: Institute for Agricultural Research

Address: P.O. Box 1044, Samaru,
Zaria,
NIGERIA

Cable/Telex:

Telephone: (257) 10 25 74

Name of the Head of
the Organ: J.H. Davies

Title: Director

No. of Professionals: 18

Main Internal Organization: Departments of: Soil science; Agricultural
engineering; Crop protection; Plant science; Agronomy;
Agro-economics; and Rural sociology.

Subject Areas of Concern: Agricultural engineering. Agricultural mechanisation.
Agronomy. Agriculture. Agricultural climatology. Crop
production. Crop response. Agricultural products.
Cultivation systems. Economic plants. Horticulture.
Rural development and planning. Seeds. Plant breeding.
Plant biology. Plant growth. Plant pathology. Weed
control. Land management. Savannas. Land conservation.
Water conservation. Water management.

Specific activities
being carried out: Research on cereal crops to develop high yielding
varieties adaptable to different ecological zones in
the savanna; Research on seeds, fibres, legumes,
horticultural crops and soil-crop environment;
Dissemination of research findings through
agricultural extension and Research Liaison Services
of ABU; Soil fertility maintenance; Soil and water
management; Land resource assessments; Cropping and
intercropping systems.

New activities planned:

Publications: Samuru research bulletins, miscellaneous papers,
"Samuru Agricultural Newsletter" (bi-monthly),
conference papers, soil survey reports and annual
Report.

Sources of Support: Government.

Fixed Experimental stations
and their activities: Kano, Kadawa, Mokwa, Bakura and Yandeu.

Source of Information: (1)

Code: M413

Name: Lake Chad Research Institute

Address: P.M.B. 1293, Maiduguri,
Borno State,
NIGERIA

Cable/Telex: LACRI/-

Telephone: 23 21 06

Name of the Head of
the Organ: Dr. V.O. Sagua

Title: Director

No. of Professionals: 32

Main Internal Organization:

Subject Areas of Concern: Agriculture. Agricultural products. Crop production.
Crop response. Crops. Fisheries. Aquaculture. Animal
production. Cattle. Cultivation systems. Food
conservation. Pest control in animals. Pastures.
Irrigated agriculture. Rainfed agriculture.

Specific activities
being carried out: Agricultural crops improvement research specially in
cereals; Fisheries; Research into fish stock dynamics,
aquaculture and fish processing technology.

New activities planned: Selection of high yield, good malting quality barley;
Aquaculture research to produce Tilapia and Clorieas
spp. fingerlings for sale to farmers; Poultry prod.;
Cattle improvement and prevention of diseases.

Publications: Technical papers, newsletter (quarterly), conference
proceedings, articles in journals.

Sources of Support: Government.

Fixed Experimental stations
and their activities: - Ngala Research Station: Research in cereals,
rainfed and irrigated agriculture;
- Baga station: Research in fisheries, poultry
and pasture production, rainfed agriculture.

Source of Information: R

Code: M415

Name: National Committee on Arid Zones Afforestation

Address: c/o Federal Dept. of Forestry
P.M.B. 202, Kaduna,
NIGERIA

Cable/Telex:

Telephone:

Name of the Head of the Organ: Mr. M.A. Oyebo

Title: Executive Secretary

No. of Professionals:

Main Internal Organization:

Subject Areas of Concern: Afforestation. Reafforestation. Deforestation. Forest management. Forestry. Shelterbelts.

Specific activities being carried out: Assistance to state forest departments in developing and establishing nurseries, communal and private woodlots, tree planting campaigns, assistance for jojoba shelterbelts .

New activities planned:

Publications:

Sources of Support: Government.

Fixed Experimental stations and their activities:

Source of Information: (1)

Code: M416

Name: National Cereals Research Institute

Address: Moor Plantations,
P.M.B. 5042, Ibadan,
NIGERIA

Cable/Telex:

Telephone:

Name of the Head of
the Organ: C.O. Obasola

Title: Director

No. of Professionals:

Main Internal Organization:

Subject Areas of Concern: Crop production. Crop response. Plant genetics. Animal
husbandry. Agriculture. Cultivation systems. Ecology.
Post-harvest conservation. Pest control. Social
aspects. Rural development and planning. Agricultural
mechanization.

Specific activities
being carried out: Integration of crop cultivation into farming systems
in different ecological zones; Studies of
socio-economic effects on rural populations;
Mechanization and improvement of cultivation,
harvesting processes and storage methods.

New activities planned:

Publications: Annual reports, memoranda, research bulletins,
information papers.

Sources of Support:

Fixed Experimental stations
and their activities:

Source of Information: (1)

Code: M418

Name: Samuru Institute for Agricultural
Research

Address: P.M.B. 1044, Zaria,
NIGERIA

Cable/Telex: AGRISEARCH/-

Telephone: 2571-4

Name of the Head of
the Organ:

Title: Director

No. of Professionals: 14

Main Internal Organization:

Subject Areas of Concern: Crop production. Plant breeding. Agriculture. Crop
response. Dry farming. Agricultural climatology.
Entomology. Agronomy. Plant populations. Plant
pathology. Weed control.

Specific activities
being carried out:

New activities planned:

Publications:

Sources of Support:

Fixed Experimental stations
and their activities:

Source of Information: (1)

Code: M419

Name: Savanna Forestry Research Station

Address: P.M.B. 1039, Samaru-Zaria,
NIGERIA

Cable/Telex:

Telephone: 2591-2

**Name of the Head of
the Organ:** A.B. Monodu

Title: Principal Research Officer

No. of Professionals: 6

Main Internal Organization:

Subject Areas of Concern: Savannas. Wood technology. Wood products. Land
management. Soil surveys. Plant breeding. Planting
management.

**Specific activities
being carried out:** Trials of pines and ecalyptus in savanna area; Soil
surveys; Tree breeding; Land clearance and site
preparation for savanna afforestation and testing; Use
of forest products.

New activities planned:

Publications: Annual reports, index of research, technical notes and
research papers.

Sources of Support: Government.

**Fixed Experimental stations
and their activities:**

Source of Information: (1)

Code: M420

Name: Department of Forestry and Fisheries,
Faculty of Agriculture
University of Sokoto

Address: P.M.B. 2346, Sokoto,
NIGERIA

Cable/Telex: UNIVERSITY OF SOKOTO / 3134 UNISOK NIGERIA

Telephone: (060) 23 20 58

Name of the Head of
the Organ: S.P.A. Okoro

Title: Acting Head

No. of Professionals: 3

Main Internal Organization:

Subject Areas of Concern: Conservation. Agroforestry. Renewable energy.
Fuel-wood. Savannas. Shelterbelts.

Specific activities
being carried out: Agroforestry in the Sudan savanna; Renewable energy
resources; Environmental forestry.

New activities planned: Shelterbelt research - designs and species trials,
fuel-wood energy option, evaluation of farm trees in
the Sudan savanna.

Publications: Seminars and conference papers.

Sources of Support: Government.

Fixed Experimental stations
and their activities: None.

Source of Information: R

Code: M501

Name: Centre Régional Africain de Technologie

Address: B.P. 2485, Dakar,
SENEGAL

Cable/Telex: -/3282 SG

Telephone: 22 77 12/13

Name of the Head of
the Organ: D.B. Thomas

Title: Directeur Executif

No. of Professionals:

Main Internal Organization:

Subject Areas of Concern: Post harvest conservation. Food conservation.
Appropriate technology. Biogas technology.

Specific activities
being carried out: Technical consultancies; Training and information
services on food; Reduction of post-harvest losses;
Energy production (biogas etc.).

New activities planned: Demonstration units on post-harvest technology, biogas
digester and appropriate equipment for food production
and energy.

Publications: "Bulletin de Liaison", "Technodeveloppement Africain",
monographs, bibliographies.

Sources of Support: Contributions from member states, OAU, UNDP, World
Bank.

Fixed Experimental stations
and their activities:

Source of Information: R

Code: M502

Name: Centre National de Recherches Agronomiques

Address: BP 14, Bambey,
SENEGAL

Cable/Telex: NORAGRO BAMBEY/-

Telephone: 843 50

Name of the Head of
the Organ: M. Mbodj

Title: Directeur

No. of Professionals: 45

Main Internal Organization:

Subject Areas of Concern: Agriculture. Irrigated agriculture. Climatology.
Agricultural mechanization. Agricultural climatology.
Rural dev. and planning. Plant genetics. Plant
pathology. Crop prod.. Crop response. Water resources.
Water management. Climate-vegetal relationship.

Specific activities
being carried out: Irrigated and non-irrigated agric.; bioclimatology;
Mechanized agriculture and rural socio-economics;
Agronomy and zoology of the Sahel; Crop prod.
specially sorghum, millet and cowpeas; Internat./West
African agro-climatology; Water management.

New activities planned:

Publications: Annual report.

Sources of Support:

Fixed Experimental stations
and their activities:

Source of Information: (1)

Code: M503

Name: Centre National de Recherches Forestières
ISRA/CNRF

Address: B.P. 2312, Dakar,
SENEGAL

Cable/Telex:

Telephone: 21 32 19

Name of the Head of
the Organ: A.I. Niana

Title: Directeur

No. of Professionals: 20

Main Internal Organization:

Subject Areas of Concern: Forestry. Saline soils. Afforestation. Reafforestation. Forest management. Forest products. Forests. Fuelwood. Agroforestry. Water balance. Planting management. Seeds. Nitrogen fixation. Plant breeding.

Specific activities
being carried out: Forest research in local and exotic species; Irrigated plantations; Reafforestation in saline soils; Nitrogen fixation; Wood energy; Plant reproduction; Harvest and storage of forest seeds.

New activities planned:

Publications: Annual reports.

Sources of Support: Government (25%), external sources (75%).

Fixed Experimental stations
and their activities:

- Podor: Irrigated plantations;
- Tibiddi: Gum and forage species;
- Boudia: Water balance of eucalyptus and forestry with local and exotic species;
- Keur Ractai: Agroforestry and plantation in saline soils;
- Djibeloi: Dev. and improvement of Sudano-Guinean forests.

Source of Information: R

Code: M504

Name: Centre de Recherches Zootechnique Kolda

Address: B.P. 53, Kolda,
SENEGAL

Cable/Telex:

Telephone:

Name of the Head of
the Organ: Mdm. Mbaye

Title: Directeur

No. of Professionals: 3

Main Internal Organization:

Subject Areas of Concern: Livestock. Cattle. Sheep. Animal production. Forage
plants. Environment.

Specific activities
being carried out: Improvement of cattle production; Sheep production;
Studies on environment and forage plants.

New activities planned: Research on production systems.

Publications: Activities report, technical reports, research
publications.

Sources of Support: Government and donors.

Fixed Experimental stations
and their activities:

Source of Information: R

Code: M505

Name: Laboratoire de Biogéographie
Faculté des Lettres et Sciences Humaines
Université de Dakar

Address: Dakar - Fann
SENEGAL

Cable/Telex: UIVDAK 262 SG/-

Telephone: 22 26 25, 21 63 70

Name of the Head of
the Organ: P. Ndiaye

Title: Maître-Assistant

No. of Professionals: 1

Main Internal Organization:

Subject Areas of Concern: Pastures. Mapping and cartography. Vegetation.
Climate-Vegetal relationship. Climatology. Training
and education in lands and soils.

Specific activities
being carried out: Dynamics of pastures; Cartography of vegetation.

New activities planned: Studies on effects of early seasonal rains on the
grass cover of northern Senegal.

Publications: Reports and theses.

Sources of Support: Government.

Fixed Experimental stations
and their activities:

Source of Information: R

Code: M506

Name: Société d'Aménagement et d'Exploitation
des Terres du Delta

Address: B.P. 74, Saint-Louis,
SENEGAL

Cable/Telex: -/7764 SG

Telephone: 61 15 33 (34)

Name of the Head of
the Organ: O.K. Dia

Title: Président Directeur Général

No. of Professionals: 36

Main Internal Organization: Division of Research and Development.

Subject Areas of Concern: Forests. Soil amendment. Agroforestry. Windbreaks.

Specific activities
being carried out: Development of a central nursery in Nianga, 22
orchards of 35 ha for villagers.

New activities planned: Rehabilitation of the fruit stations of Diorbivol and
Guété, creation of fruit orchards and windbreaks.

Publications:

Sources of Support: FAC, CCCE, FED.

Fixed Experimental stations
and their activities:

Source of Information: R

Code: M508

Name: Institut Sénégalais de Recherches Agricoles
Centre National de Recherches Forestières

Address: B.P. 2312, Dakar,
SENEGAL

Cable/Telex: 3117 ISRA SG/-

Telephone: 21 32 19, 21 96 17

**Name of the Head of
the Organ:** M. M. Niang

Title: Directeur Général

No. of Professionals: 250

Main Internal Organization:

Subject Areas of Concern: Forestry. Agroforestry. Plant breeding. Plant
physiology. Soil microbiology. Forest products. Wood
management. Wood technology.

**Specific activities
being carried out:** Silviculture of local and exotic species in dry and
irrigated soils; Physiology of eucalyptus and gum
trees; Soil microbiology; Plant breeding and tissue
culture.

New activities planned: Agroforestry, hydrobiology, technology and chemistry
of wood.

Publications: Annual reports.

Sources of Support: Government (25%), France (25%), Canada (25%) and NAS
(25%).

**Fixed Experimental stations
and their activities:** Four stations covering 700 ha (25 ha irrigated).

Source of Information: R

Code: M514

Name: Institut Français de Recherche Scientifique
pour le Développement en Coopération (ORSTOM)

Address: Centre ORSTOM HANN,
B.P. 1386, Dakar,
SENEGAL

Cable/Telex: -/468 ORSTOM SG

Telephone: 21 34 80, 22 34 76

Name of the Head of
the Organ: B. Dalmayrac

Title: Représentant de l'ORSTOM au Sénégal

No. of Professionals: 120

Main Internal Organization:

Subject Areas of Concern: Demography. Saline soils. Water balance. Water
quality. Nitrogen fixation. Rural development and
planning. Geography. Entomology. Human health. Soil
microbiology. Ecology. Hydrology. Climatology.
Geology. Fisheries. Remote sensing. Biogas technology.
Livestock.

Specific activities
being carried out: Studies on saline soils, quality and water balance;
Nitrogen fixation experiments; Fish stock studies;
Climatic monitoring; Remote sensing; Biogas
applications; Malnutrition.

New activities planned:

Publications: Publications through international reviews, monographs
and "ORSTOM Report".

Sources of Support: Government.

Fixed Experimental stations
and their activities: - Centre de Hann: Geology, hydrology, pedology, soil
and water laboratory;
- Centre de Bel Air: Soil microbiology, nematology,
zoology, physical oceanography and human science;
- Richard Toll: Geography and ornithology;
- Orana Nutrition Inst. Pasteur: Medical entomology.

Source of Information: R

Code: M516

Name: Société de Développement et de Vulgarisation Agricole

Address: 92, rue Blanchot
B.P. 3234, Dakar,
SENEGAL

Cable/Telex: -/638

Telephone: 22 03 89, 21 16 78, 21 61 30

Name of the Head of the Organ: M. Diallo

Title: Sociologue-Directeur

No. of Professionals: 32

Main Internal Organization: General Management; Technological dept.; Administration; Regional delegations.

Subject Areas of Concern: Reafforestation. Soil amendment. Nature protection. Conservation. Ecology. Agriculture.

Specific activities being carried out: Reafforestation; Regeneration of soils and preservation of the natural habitat.

New activities planned: Agroforestry.

Publications: Annual reports, specific notes.

Sources of Support:

Fixed Experimental stations and their activities:

Source of Information: R

Code: M600

Name: Faculty of Agriculture,
National University of Somalia

Address: P.O. Box 801, Mogadishu,
SOMALIA

Cable/Telex:

Telephone:

Name of the Head of
the Organ: M. A. Mohamed

Title: Dean

No. of Professionals: 29

Main Internal Organization: Department of Botany and Range management.

Subject Areas of Concern: Sand dunes. Plant adaptation. Land reclamation. Desert
plants. Desert soils. Desert ecology. Sand control.
Forestry.

Specific activities
being carried out: Stabilizing sand dunes with Commifera, Cassia and
Solanum species.

New activities planned: Species trials for rehabilitation of denuded areas, a
comparison of indigenous and introduced species,
establishment of plant nursery for growing out and
hardening plants suitable for direct planting in sand
dunes, rehabilitation of abandoned farms in the
central rangelands of Somalia.

Publications:

Sources of Support: Government, USAID, IFAD, World Bank, GTZ.

Fixed Experimental stations
and their activities:

Source of Information: R

Code: M604

Name: National Range Agency

Address: P.O. Box Mogadishu,
SOMALIA

Cable/Telex: -/736 NRA

Telephone:

Name of the Head of
the Organ: Dr. A. Ahmed Karani

Title: General Manager

No. of Professionals:

Main Internal Organization: Anti-desertification unit; Water and soil conservation
section; Range management department; Forestry
department.

Subject Areas of Concern: Soil management. Sand dunes. Rangelands. Water
management. Forestry. Training and education. Water
conservation. Desertification control. Shelterbelts.

Specific activities
being carried out: Tree planting; Dune control, Shelterbelts; Range
reserves; Water development; Agroforestry and
community forestry projects.

New activities planned: Extension of ongoing projects.

Publications: National Range Agency report, Range bulletin.

Sources of Support: Government, bi-lateral donors and private foundations.

Fixed Experimental stations
and their activities: - Afgoi Forestry: Limited experimental project.

Source of Information: R

Code: M800

Name: Agricultural Research Corporation (ARC)

Address: P.O. Box 126, Wad Medani,
SUDAN

Cable/Telex: RESEARCH, MEDANI, SUDAN/-

Telephone:

Name of the Head of
the Organ: Dr. M.B. Said

Title: Director General

No. of Professionals: 245

Main Internal Organization:

Subject Areas of Concern: Soil Science. Agronomy. Botany. Entomology. Economics.
Food Conservation. Forestry. Wildlife. Ranges.
Pastures. Horticulture.

Specific activities
being carried out: Research, experimentation and on-farm testing on soil
sciences, agronomy, pathology, entomology, breeding
and horticulture; Studies in statistics and
agricultural economics; Wildlife and grasslands.

New activities planned:

Publications: Annual reports and technical papers in local and
international journals.

Sources of Support: Government, grants from international organizations
and income from crop sales.

Fixed Experimental stations
and their activities: - 17 stations and centres widely spread throughout the
country.

Source of Information: R

Code: M801

Name: Forest Administration

Address: P.O. Box 658, Khartoum,
SUDAN

Cable/Telex: GRABAL KHARTOUM/-

Telephone:

Name of the Head of
the Organ: O.K. Kamal

Title: Director-General

No. of Professionals:

Main Internal Organization: Afforestation and shelterbelt sections.

Subject Areas of Concern: Sand dunes. Afforestation. Land conservation. Forest
management. Forests. Shelterbelts.

Specific activities
being carried out: Establishment of shelterbelts in the Nile province;
Sand dune fixation; Canal side planting.

New activities planned: Establishment of shelterbelts in irrigated and rainfed
agriculture schemes.

Publications: "Sudan Silva".

Sources of Support: Government, FAO, USAID, CARE, CIDA, FINILIDA.

Fixed Experimental stations
and their activities:

Source of Information: R

Code: M803

Name: Faculty of Agriculture,
University of Khartoum

Address: Shabat, Khartoum North,
SUDAN

Cable/Telex: MAZRA/-

Telephone: 61 20 04

Name of the Head of
the Organ: Prof. E. I. El-Khidir

Title: Dean, Faculty of Agriculture

No. of Professionals: 60

Main Internal Organization:

Subject Areas of Concern: Training and education. Agriculture. Forestry. Land
use. Range management. Forest management.
Desertification. Animal production.

Specific activities
being carried out: Teaching and research in all relevant agricultural
disciplines to under and post-graduate students.

New activities planned:

Publications: A popular agricultural magazine and an agricultural
research journal.

Sources of Support: Government.

Fixed Experimental stations
and their activities: A demonstration farm: Research and training on
agriculture and animal production.

Source of Information: R

Code: M805

Name: Forest Research Centre

Address: P.O. Box 658, Khartoum,
SUDAN

Cable/Telex:

Telephone: 767 00, 767 04

Name of the Head of
the Organ: Prof. A. Elhuri

Title: Director

No. of Professionals: 4

Main Internal Organization: Wad Medani and El Obeid Centres.

Subject Areas of Concern: Land reclamation. Forestry. Agroforestry. Desert
plants. Desert soils. Desert ecology. Shelterbelts.

Specific activities
being carried out: Land reclamation and desert combat in the northern
province of Sudan.

New activities planned: Shelterbelts at Elzeidabath (northern Sudan) and
Elbashiri (western Sudan).

Publications: Periodicals and monographs.

Sources of Support: Government and external aid.

Fixed Experimental stations
and their activities: - Kerma in the northern province: Land reclamation,
shelterbelt trials.

Source of Information: R

Code: M806

Name: Geological and Mineral Resources Div.
Geological Survey Dept.

Address: P.O. Box 410, Khartoum,
SUDAN

Cable/Telex:

Telephone: 724 41

Name of the Head of
the Organ: Y. Suleiman

Title: Director General

No. of Professionals:

Main Internal Organization:

Subject Areas of Concern: Ground water. Water resources. Crusts. Fossils.
Geochemical explorations. Geology. Geomorphology.
Mineralogy. Mapping and cartology.

Specific activities
being carried out: Applied research and surveys; Geological mapping;
Mineral exploitation and development; Ground water
investigation and oil exploration.

New activities planned:

Publications: Annual reports, bulletins.

Sources of Support:

Fixed Experimental stations
and their activities:

Source of Information: (1)

Code: M807

Name: Institute of Environmental Studies

Address: P.O. Box 321, Khartoum,
SUDAN

Cable/Telex:

Telephone: 809 93

Name of the Head of the Organ: Prof. M.D. El Khalifa

Title: Director

No. of Professionals: 7

Main Internal Organization: Four project co-ordinators.

Subject Areas of Concern: Arid lands management and development. Water resources. Urban areas. Environmental training and education. Desertification control. Ecosystems. Environmental impact. Watershed management. Grazing.

Specific activities being carried out: Research on obstacles to the application of knowledge in arid lands; Monitoring indicators of environmental change in Sudan.

New activities planned: Blue Nile watershed management, village based programmes to combat desertification in Kordofan Region.

Publications: Monographs on: women and the environment, open grazing, environmental degradation in Butana and impact of water points on environmental degradation in Kordofan, "Sudan environment" newsletter.

Sources of Support: Government, Ford Foundation and consultancies.

Fixed Experimental stations and their activities:

Source of Information: R

Code: M808

Name: Department of Meteorology

Address: P.O. Box 574, Khartoum,
SUDAN

Cable/Telex: GOVMET/-

Telephone: 788 36

Name of the Head of
the Organ: Mr. M.E. Abdalla

Title: Acting Director General

No. of Professionals: 32

Main Internal Organization: Research section.

Subject Areas of Concern: Meteorology. Climatology. Agricultural climatology.
Weather modification.

Specific activities
being carried out: Scientific research on climatology. Agrometeorological
observations and research. Weather forecasting.

New activities planned: Enhancement of present activities by using recent
technology.

Publications: Annual meteorological reports, research published by
meteorologists.

Sources of Support: Government.

Fixed Experimental stations
and their activities: 46 meteorological stations.

Source of Information: R

Code: M809

Name: National Committee for Environment.

Address: P.O. Box 4274, Khartoum Central,
SUDAN

Cable/Telex:

Telephone: 757 47

Name of the Head of
the Organ: Dr. L.A. E. Desugi

Title: Convenor of the National Committee for Environment

No. of Professionals: 4

Main Internal Organization: Within National Council for Research.

Subject Areas of Concern: Desertification. Environment. Environmental impact.
Tree planting.

Specific activities
being carried out: To promote programmes of public awareness and
participation in the field of desertification control
Tree planting programme in co-operation with the
Ministry of Education.

New activities planned: A project of tree planting in primary schools in
Khartoum City, a desertification bibliography manual.

Publications: None.

Sources of Support: Government.

Fixed Experimental stations
and their activities: None.

Source of Information: R

Code: M810

Name: Desertification Control Coordination
and Monitoring Unit

Address: Ministry of Agriculture Food and Natural
Resources,
P.O. Box 199, Khartoum,
SUDAN

Cable/Telex: DECARP MINIST. OF AGRICULTURE/-

Telephone: 720 23

Name of the Head of
the Organ: Prof. H.A. Musnad

Title: National Co-ordinator

No. of Professionals: 12

Main Internal Organization:

Subject Areas of Concern: Land reclamation. Sand dunes. Shelterbelts. Fuelwood.
Pastures. Forests. Afforestation. Training and
education. Desertification control.

Specific activities
being carried out: Restoration of gumbelts and shelterbelts; Sand dune
fixation; Fodder and fuel-trees.

New activities planned: Compilation of national plan to combat desertification.

Publications: "Ettasahhur Magazine".

Sources of Support: Government, UNSO, UNDP, UNESCO

Fixed Experimental stations
and their activities: - Forestry Research Centre at Soba: Species trials
for arid land afforestation, fodder and fuel trees,
training and nursery techniques.

Source of Information: R

Code: M812

Name: Range and Pasture Administration

Address: P.O. Box 119, Khartoum,
SUDAN

Cable/Telex

Telephone:

Name of the Head of
the Organ: Dr. A. Darag

Title: Director

No. of Professionals: 6

Main Internal Organization:

Subject Areas of Concern: Grazing. Rangelands. Pastoralism. Land management.
Land conservation. Land resources. Pastures. Savannas.
Remote sensing. Water resources.

Specific activities
being carried out: Management of grazing resources around permanent water
points; Range conservation and improvement.

New activities planned:

Publications:

Sources of Support:

Fixed Experimental stations
and their activities:

Source of Information: (1)

Code: M813

Name: Soil Conservation and Land Use Administration

Address: P.O. Box 1942, Khartoum,
SUDAN

Cable/Telex: MAWARD KHARTOUM/-

Telephone: 700 59, 701 72

Name of the Head of the Organ: Mr. M.M.A. Satti

Title: Director

No. of Professionals: 120

Main Internal Organization: Internal Planning Committee.

Subject Areas of Concern: Soil conservation. Land use. Land reclamation. Rural development and planning. Irrigation. Irrigation systems. Irrigation programmes. Settlements. Water harvesting.

Specific activities being carried out: Reclamation of soils in El Karab and Elgezira provinces; Reclamation of graded soils in northern Kordofan province; Water cropping and water spreading of seasonal water courses in Kassala and northern Darfur province; Desert encroachment control in northern Darfur and Kordofan provinces; Studies on land use and human settlements.

New activities planned: Desert encroachment control projects.

Publications: Technical reports in collaboration with Doxiades Company, Hunting Technical Services and University of Khartoum, periodicals.

Sources of Support: Government.

Fixed Experimental stations and their activities: - Central Lab. of Khartoum Municipality;
- Sennar Lab. in Blue Nile Province;
- Garden soils pilot project in N.K. province;
- Delt Arbaat water spreading pilot project in Red Sea province;
- Malam Al Widian Water spreading pilot project in N. Darfur province.

Source of Information: R

Code: M814

Name: Arab Organization for Agricultural Development (The)

Address: 4, Alyamia Street,
P.O. Box 474, Khartoum,
SUDAN

Cable/Telex: MOTAZEEN KHARTOUM/554 AOAD SD

Telephone: 78760/1/2/3

Name of the Head of the Organ: Dr. H. F. Jumah

Title: Director General

No. of Professionals: 300 (25 permanent)

Main Internal Organization: Three technical departments.

Subject Areas of Concern: Forestry. Agricultural engineering. Agricultural products. Agroforestry. Agronomy. Arid lands. Crop production. Crop response. Cultivation systems. Irrigation. Rural development and planning. Foods. Food supply. Agricultural climatology. Agriculture.

Specific activities being carried out: Arab food security programmes, Arabic agricultural dictionary and yearbook of agricultural statistics.

New activities planned: Pilot agricultural projects.

Publications: Reports on different fields of agriculture. "Agriculture and development" (bi-monthly), "Agriculture News Bulletin" (monthly)

Sources of Support: Arab states.

Fixed Experimental stations and their activities: Institute of Forestry in Syria.

Source of Information: R

Code: M900

Name: Ardhi Institute

Address: P.O. Box 35176, Dar-Es-Salaam,
TANZANIA

Cable/Telex: ARDMICHUO/-

Telephone: 491 12

Name of the Head of
the Organ: Mr. S. Ndunguru

Title: Principal

No. of Professionals: 106

Main Internal Organization: Ten departments.

Subject Areas of Concern: Land evaluation. Land use. Training and education.
Health. Urban planning. Land management. Rural
development and planning.

Specific activities
being carried out: Providing training to students in: Land and quality
surveying; Architecture; Land management and
evaluation; Urban and rural planning; Public health
engineering at advanced diploma level.

New activities planned: "Journal of Building and Land Development", Ardhi
Institute prospectus.

Publications: Government, subsidies from DANIDA, CFTC, UNDP, GVS and
VSO.

Sources of Support:

Fixed Experimental stations
and their activities:

Source of Information: R

Code: M901

Name: Faculty of Forestry
Sokoine University of Agriculture

Address: P.O. Box 3009, Morogoro,
TANZANIA

Cable/Telex: UNIAGRIC,/55308 UNIVMO TE

Telephone: 3511-4

**Name of the Head of
the Organ:** Dr. A.B. Temu

Title: Dean of Faculty

No. of Professionals: 22

Main Internal Organization: Within university.

Subject Areas of Concern: Forestry. Biology. Wood management. Wood technology.
Training and education. Forest management. Forest
products. Agroforestry.

**Specific activities
being carried out:** Training and research in forest and biological
services.

New activities planned: Energy research.

Publications: Division of forestry records in series (Vol.33
up-to-date).

Sources of Support: NORAD, SAREC (Swedish Govt.), IDRC (Canadian Govt.).

**Fixed Experimental stations
and their activities:** Olmotonyi Training Forest, Arusha.

Source of Information: R

Code: M902

Name: Forest and Bee Keeping Division

Address: P.O. Box 426, Dar-es-Salaam,
TANZANIA

Cable/Telex:

Telephone: 272 71

Name of the Head of
the Organ:

Title: Director

No. of Professionals: 2

Main Internal Organization: Hado Project

Subject Areas of Concern: Land reclamation. Conservation. Forestry. Agriculture.
Pastures. Soil erosion.

Specific activities
being carried out: Soil conservation on badly eroded land; Forestry and
pasture conservation.

New activities planned: Pasture improvement and possible re-introduction of
cattle.

Publications: "Ten years of Hado".

Sources of Support: Government, SIDA.

Fixed Experimental stations
and their activities: None.

Source of Information: R

Code: M903

Name: Olmontonyi Forestry Training Institute

Address: P.O. Box 943, Arusha,
TANZANIA

Cable/Telex: JUAMISITU ARUSHA/-

Telephone: 057 34 41

Name of the Head of
the Organ: R.J.C. Nchango

Title: Principal

No. of Professionals: 25

Main Internal Organization: Three academic departments; One administrative; One
financial.

Subject Areas of Concern: Training and education in lands. Conservation.
Afforestation. Wood management. Forest management.
Agroforestry.

Specific activities
being carried out: Education in forestry, offering Officer Certificate
degrees and ordinary diplomas in education and
forestry.

New activities planned:

Publications: None.

Sources of Support: Government and aid from other countries and
organizations.

Fixed Experimental stations
and their activities: - Arboretum for silvicultural training.
- Arid zone nursery for experimenting and raising
arid zone species.

Source of Information: R

Code: M904

Name: Institute of Resource Assessment (IRA)
Universty of Dar-es-Salaam

Address: P.O. Box 35097, Dar-es-Salaam,
TANZANIA

Cable/Telex: -/UNISCIE 41327

Telephone: 490 39

Name of the Head of
the Organ: Prof. A.C. Mascarenhas

Title: Director

No. of Professionals: 20

Main Internal Organization:
Subject Areas of Concern: Settlements. Natural resources. Water resources.
Cultivation systems. Food supply. Social aspects.
Human health. Transport. Remote sensing. Rural dev.
and planning. Fuelwood. Biogas tech.. Afforestation.
Land use. Land conserv.. Environment.

Specific activities
being carried out: Research on: Population resources and human settlements,
environment; natural resources, water dev., agricultural
systems emphasizing food prod., distribution of social
services particularly health, education and transportation
impacts; Physical resource assessment, remote sensing social
aspect of agricultural dev.; Socio-economic assessment of
water resource dev.; Population and Women's studies;
Planning the dev. and manag. of the Ngorongoro Conservation
Area with financial assistance from IUCN and UNESCO; A
long-term joint BRALUP/EFI project on environmental planning
processes and the socio-economic impact of a multi-million
investment in pulp production (the Mufundi Paper Mill); An 18
month survey on fuelwood supply in the semi-arid areas of
Tanzania on behalf of FAO; Small-scale energy issues in coop.
with Trente University of Tech., Netherlands and SIDO
(Gasification by Combustion Project); Studies on communal
types of biogas plants in Tanzania.

New activities planned: Rural water supply, management of wildlife conservation
areas, coastal resources, afforestation schemes,
application of satellite technology for land use
planning, population and food and settlements.

Publications: Monograph series, BRALUP research papers, consultancies.

Sources of Support: Government, IUCN, UNESCO.

Fixed Experimental stations
and their activities:

Source of Information: (1)

Code: M905

Name: Ministry of Agriculture and Livestock Development

Address: P.O. Box 9071, Dar-es-Salaam,
TANZANIA

Cable/Telex:

Telephone: 294 81, 294 84.

Name of the Head of
the Organ: A.H. Kishimba

Title: Senior Agriculture Officer

No. of Professionals: 9

Main Internal Organization: Land use planning.

Subject Areas of Concern: Land evaluation. Soil conservation. Water conserv..
Training and education. Agroforestry. Water
harvesting. Grazing systems. Soil surveys.

Specific activities
being carried out: Land evaluation; Soil and water conservation; Farmer
Education.

New activities planned: Agroforestry, water harvesting on a small scale,
controlled grazing soil survey.

Publications: None.

Sources of Support: Government.

Fixed Experimental stations
and their activities:

Source of Information: R

Code: M906

Name: Ministry of Livestock Development

Address: P.O. Box 9152, Dar-es-Salaam,
TANZANIA

Cable/Telex:

Telephone: 272 31, 292 81

Name of the Head of
the Organ: Dr. R.L. Masoki

Title: Principal Secretary

No. of Professionals:

Main Internal Organization:

Subject Areas of Concern: Animal production. Animal health. Livestock.
Rangelands. Soil management. Water resources.
Pastures. Land reclamation. Animal diseases. Land
conservation. Training and education. Pest control.
Animal adaptation.

Specific activities
being carried out: Importation and breeding of exogenous breeds; Soil
preservation.

New activities planned:

Publications: "Tanzania Society of Animal Production" (annual),
"Ukulima" (monthly), "Progressive Stockman".

Sources of Support:

Fixed Experimental stations
and their activities:

Source of Information: (1)

Code: M911

Name: Centre for Agricultural Mechanization
and Rural Technology

Address: P.O. Box 764, Arusha,
TANZANIA

Cable/Telex: -/42115

Telephone: 35 94, 36 66

Name of the Head of
the Organ: Mr. E. M. Ngaiza

Title: Director General

No. of Professionals: 30

Main Internal Organization:

Subject Areas of Concern: Energy. Alternate energy. Biogas technology.
Agricultural mechanization.

Specific activities
being carried out: Biogas generation; Construction of efficient cooking
stoves; Biomass conversions; Energy efficient usage
programmes.

New activities planned:

Publications: - "CAMARTEC in Action", "Biogas and Cookstoves Fliers"

Sources of Support: Government, GATE/GTZ.

Fixed Experimental stations
and their activities: - Tengeru.

Source of Information: R

Code: M912

Name: Tanzania National Scientific Research Council

Address: P.O. Box 4302, Dar-es-Salaam,
TANZANIA

Cable/Telex: UTAFITI DAR-ES-SALAAM/41177

Telephone: 258 02, 233 79, 233 49

Name of the Head of the Organ: Prof. A. Msangi

Title: Director General

No. of Professionals: 13

Main Internal Organization:

Subject Areas of Concern: Environment. Appropriate technology, Biogas technology. Wind power. Environmental effects. Erosion control. Alternate energy. Fuelwood. Deforestation.

Specific activities being carried out: Initiation of a number of projects related to the environment eg: the adaptation/ adoption of appropriate energy technologies such as windmills and biogas; The latter is intended to provide alternative energy to fuelwood as a measure against deforestation and environmental degradation.

New activities planned:

Publications: Bulletin of research and information, annual report, technical reports.

Sources of Support: Government, SIDA.

Fixed Experimental stations and their activities:

Source of Information: (1)

Code: N003

Name: Institut des Régions Arides (IRA)

Address: B.P. 4119, Médenine,
TUNISIA

Cable/Telex:

Telephone: (05) 406 61, 404 35

Name of the Head of
the Organ: A.M. El Hamrouni

Title: Président - Directeur Général

No. of Professionals: 17

Main Internal Organization: Directorates of: Training and research;
Popularization; Information and documentation.

Subject Areas of Concern: Erosion control. Remote sensing. Pastoralism.
Pastures. Desert ecology. Livestock. Ecology. Arid
lands management and development. Irrigated agric..
Economic development. Rural dev. and planning.
Training and education in lands and soils.

Specific activities
being carried out: Erosion studies; Remote sensing; Pastoral ecology;
Livestock development in arid zones; Irrigated
agriculture; Economic development.

New activities planned:

Publications: "Cahiers de l'IRA", "Bulletin Technique de l'IRA", and
"Bulletin des Régions Arides

Sources of Support: Government, UNEP.

Fixed Experimental stations
and their activities: - At: Médenine; Ben Gardane; Gabes; Kébili;
Tataouine; Tuzeur.

Source of Information: R

Code: N004

Name: Institut National de la Recherche
Agronomique de Tunisie (INRAT)

Address: Avenue de l'Indépendance,
Ariana,
TUNISIA

Cable/Telex:

Telephone: 23 00 24, 23 19 85, 23 16 93.

Name of the Head of
the Organ: Mr. M. Lasran

Title: Directeur de l'INRAT

No. of Professionals: 65

Main Internal Organization:

Subject Areas of Concern: Agronomy. Plants. Forestry. Plant studies. Plant
genetics. Economics. Bioclimatology. Entomology.
Chemistry. Nutrition. Physiology.

Specific activities
being carried out: Amelioration of field crops, vegetables and fruits;
Protection of vegetation; Entomology; Virology;
Ecology-agronomy (bioclimatology, agronomy,
chemistry); Zootechnical-agronomy (bioclimatology,
agronomy, chemistry); Zootechniques (genetics,
physiology, chemistry); Nutrition; Economics and
biometrics.

New activities planned:

Publications: "Annales de l'INRAT" (annual), technical reports,
"Bulletin de l'INRAT".

Sources of Support: Own resources, Government.

Fixed Experimental stations
and their activities: 23 stations.

Source of Information: R

Code: N005

Name: Institut National des Recherches Forestières (INRF)

Address: B.P. 2 ,Ariana 2080,
TUNISIA

Cable/Telex: TUNIREB/-

Telephone: 23 00 14, 23 00 39, 23 04 20,
23 67 90, 23 00 76

Name of the Head of
the Organ: M.H. Hamza

Title: Ingénieur Général des Forêts

No. of Professionals: 38 Technicians.

Main Internal Organization:

Subject Areas of Concern: Forestry. Pastoralism. Grazing. Grasslands.
Rangelands. Ecosystems. Ecology. Pastures. Forests.

Specific activities
being carried out: Studies of the forest ecosystems of Tunisia.

New activities planned: Amendment of silvipastoral zones and ecological
studies of forests and pastures of Tunisia.

Publications: "Notes de Recherche", technical reports and "Annales
de l'INRF".

Sources of Support: Government.

Fixed Experimental stations
and their activities: - Aïn Draham;
- Sedjenane;
- Gabès.

Source of Information: R

Code: N006

Name: Direction des Forêts,
Min. de l'Agriculture

Address: 30 rue Alain Savary,
Tunis,
TUNISIA

Cable/Telex:

Telephone: 68 04 54, 28 25 50

Name of the Head of
the Organ: T. Jalel

Title: Directeur

No. of Professionals: Eight.

Main Internal Organization:

Subject Areas of Concern: Reafforestation. Sand control. Pastoralism.
Rangelands. Sand dunes. Oases. Land reclamation.

Specific activities
being carried out: Dev. and amendment of pastoral lands in the arid
zones; Protection of oases against sand encroachment.

New activities planned: Preparation of a national strategy to combat
desertification.

Publications:

Sources of Support: Government, UNDP, UNESCO.

Fixed Experimental stations
and their activities: IRA Médenine.

Source of Information: R

Code: N100

Name: Ministry of Agriculture and Forestry

Address: P.O. Box 102, Entebbe,
UGANDA

Cable/Telex:

Telephone: 209 81

Name of the Head of
the Organ:

Title: Permanent Secretary

No. of Professionals: 4000

Main Internal Organization: Department of Agriculture and Department of Forestry.

Subject Areas of Concern: Foods. Soil management and conservation. Water
conservation. Forestry. Afforestation. Training and
education in agriculture, soils and water.

Specific activities
being carried out: Food, soil and water conservation research; Training
and extension; Afforestation programmes.

New activities planned:

Publications: Annual reports.

Sources of Support: Government, loans and grants.

Fixed Experimental stations
and their activities: - Kawanda;
- Namulange;
- Serere;
- Nakawa.

Source of Information: R

Code: NI01

Name: Dept. of Forestry, Makerere Univ.

Address: P.O. Box 7062, Kampala,
UGANDA

Cable/Telex: MAKUNIKA/-

Telephone: 569 31

Name of the Head of
the Organ: Dr. D.B.A. Ruyooka

Title: Associate Professor

No. of Professionals: 8

Main Internal Organization:

Subject Areas of Concern: Forests. Forest management. Training and education.
Agroforestry. Wood management.

Specific activities
being carried out: Teaching; 20-30 students graduate every year.

New activities planned: Research in agroforestry and forest/wood protection.

Publications: "Mufa Newsletter" (quarterly).

Sources of Support: Government.

Fixed Experimental stations
and their activities: None.

Source of Information: R

Code: NI02

Name: Geography Dept., Makerere Univ.

Address: P.O. Box 7062, Kampala,
UGANDA

Cable/Telex:

Telephone:

Name of the Head of
the Organ: Dr. V. Mwaka

Title: Head of Department

No. of Professionals:

Main Internal Organization:

Subject Areas of Concern: Training and education. Drought. Desertification.

Specific activities
being carried out: Lectures to undergraduate students on desertification
problems; Drought in tropical areas.

New activities planned:

Publications: None.

Sources of Support: Government.

Fixed Experimental stations
and their activities: One small teaching climatological station.

Source of Information: R

Code: N103

Name: Dept. of Veterinary, Pasture and Range Management

Address: P.O. Box 112, Entebbe,
UGANDA

Cable/Telex:

Telephone:

Name of the Head of
the Organ: Dr. Nasaba

Title: Director

No. of Professionals: 11

Main Internal Organization:

Subject Areas of Concern: Livestock. Pastures. Rangelands. Animal diseases.
Animal health. Animal production. Ecology. Agronomy.
Grazing.

Specific activities
being carried out: Protection on range utilization and camel husbandry in
Kasanoja.

New activities planned:

Publications:

Sources of Support: Government.

Fixed Experimental stations
and their activities:

Source of Information: (1)

Code: NI04

Name: Water Development Department

Address: P.O. Box 19, Entebbe,
UGANDA

Cable/Telex: AQUATIC ENTEBBE/-

Telephone: (042) 208 52, 209 14

Name of the Head of
the Organ: Eng. B.K. Kabanda

Title: Commissioner

No. of Professionals: 50

Main Internal Organization:

Subject Areas of Concern: Climatology. Meteorology. Hydrology. Hydrogeology.
Mapping and cartography. Hydrogeologic maps. Water
resources. Groundwater.

Specific activities
being carried out: Hydrometeorological monitoring and research; Ground
water survey and drilling.

New activities planned: Rehabilitation and strengthening of the
hydrometeorological network and research in northern
Uganda, preparation of hydrological maps.

Publications: Hydrological data summaries and reports.

Sources of Support: Government.

Fixed Experimental stations
and their activities: - Hydrometeorological network: data collection.

Source of Information: R

Code: N105

Name: Forest Research Institute

Address: P.O. Box 1752, Kampala
UGANDA

Cable/Telex:

Telephone:

Name of the Head of
the Organ: M. Oloya

Title: Principal Research Officer

No. of Professionals: 16

Main Internal Organization:

Subject Areas of Concern: Agroforestry. Wood technology. Wood management.
Forestry. Forests. Forest products.

Specific activities
being carried out: Preservation, seasoning and wood working tests;
Logging, milling and building research; Silviculture
control of natural forests and man-made plantations.

New activities planned:

Publications:

Sources of Support:

Fixed Experimental stations
and their activities:

Source of Information: (1)R

Code: N107

Name: Nakawa Forestry Research Institute

Address: P.O. Box 1752, Kampala,
UGANDA

Cable/Telex:

Telephone: 56262/1, 31912

Name of the Head of the Organ: M. Oloya

Title: Principal Research Officer

No. of Professionals: 16

Main Internal Organization:

Subject Areas of Concern: Forestry. Rural development and planning. Trees. Desertification control.

Specific activities being carried out: Desertification control through rural community forestry development in Karamoja District.

New activities planned: Tree planting and protection of established vegetation in other arid areas of the country.

Publications: None.

Sources of Support: EEC, ILO, UNSO.

Fixed Experimental stations and their activities:

- Kotido;
- Kaabong;
- Moroto.

Source of Information: R

Code: NI09

Name: Uganda Institute of Ecology

Address: P.O. Box 22, Lake Katwe,
UGANDA

Cable/Telex: NATPARKS/-

Telephone

Name of the Head of
the Organ: Dr. E.L. Edroma

Title: Chief Research Officer/Director

No. of Professionals: 9

Main Internal Organization: Uganda National parts.

Subject Areas of Concern: Wildlife. Forests. Vegetation. Ecosystems.
Environment. Animal distribution. Animal populations.
Conservation. Habitats. Deforestation.

Specific activities
being carried out: Studies on the distribution and population size of
wild animals; Dynamics of the vegetation and animal
ecosystems; Environmental factors

New activities planned: Fire science in natural ecosystems, pollution studies,
human-wildlife interaction, intensification on
environmental, conservation and education programmes.

Publications: Over 300 monographs.

Sources of Support: Government and international agencies.

Fixed Experimental stations
and their activities: - Mweya: Research on wildlife conservation,
deforestation studies;
- Paraa: Regeneration of terminalia trees;
- Lake Mburo: Habitat utilization by wild game.

Source of Information: R

Code: N110

Name: Forestry Department

Address: P.O. Box 31, Entebbe,
UGANDA

Cable/Telex:

Telephone:

Name of the Head of
the Organ: Mr. K. Karani

Title: Chief Forest Officer

No. of Professionals: 5

Main Internal Organization:

Subject Areas of Concern: Forests. Forestry. Agroforestry. Forest management.
Rural development and planning. Desertification
control.

Specific activities
being carried out: A desertification control project in co-operation with
UNSO.

New activities planned:

Publications:

Sources of Support:

Fixed Experimental stations
and their activities:

Source of Information: (1)R

Code: N203

Name: Centre d'Etudes Economiques et Sociales de l'Afrique de l'Ouest (CESAO)

Address: B.P. 305, Bobo-Dioulasso,
BURKINA FASO

Cable/Telex:

Telephone: 99 04 90, 99 04 91

Name of the Head of the Organ: J. Vankrunkelsven

Title: Directeur

No. of Professionals: 21

Main Internal Organization:

Subject Areas of Concern: Rural development and planning. Health. Social aspects.

Specific activities being carried out: Projects on rural development, health and women; Activities in rural areas; Co-operatives.

New activities planned:

Publications: "Appui au Monde Rural".

Sources of Support: Government and humanitarian aid from Switzerland.

Fixed Experimental stations and their activities:

Source of Information: R

Code: N204

Name: Centre Technique Forestier Tropical

Address: B.P. 1769, Ouagadougou,
BURKINA FASO

Cable/Telex:

Telephone: 33 46 36

**Name of the Head of
the Organ:** D. Framond

Title: Directeur

No. of Professionals: 3

Main Internal Organization:

Subject Areas of Concern: Forestry. Wood technology. Forest management. Wood
management. Agroforestry. Plant genetics.

**Specific activities
being carried out:** Genetical improvement; Symbiotic relationships; Wood
technology; Forestry; Dendrography.; Agroforestry.

New activities planned:

Publications: Annual reports, diverse notes.

Sources of Support: Government and French government.

**Fixed Experimental stations
and their activities:** - Gonse and Dinderesso: Plant genetic improvement,
agroforestry;

Source of Information: R

Code: N205

Name: Centre d'Etudes Phytosociologiques et
Ecologiques L. Emberger

Address: Ouagadougou,
BURKINA FASO

Cable/Telex:

Telephone:

Name of the Head of
the Organ:

Title: Director

No. of Professionals:

Main Internal Organization:

Subject Areas of Concern: Plant ecology. Climatology. Vegetation. Mapping and
cartography. Desertification control.

Specific activities
being carried out:

New activities planned:

Publications:

Sources of Support:

Fixed Experimental stations
and their activities:

Source of Information: (2)

Code: N206

Name: Centre National de la Recherche
Scientifique et Technologie

Address: B.P. 7047, Ouagadougou,
BURKINA FASO

Cable/Telex:

Telephone: 323 94, 323 95

Name of the Head of
the Organ: E. Bon Koungou

Title: Director

No. of Professionals:

Main Internal Organization:

Subject Areas of Concern: Agronomy. Forestry. Animal production. Ecology.
Forestry. Reafforestation. Soil management. Water
conservation. Social aspects.

Specific activities
being carried out: Research in social sciences, agronomy, biology,
forestry, zootechnology; Introduction of eucalyptus to
the Sudano-Sahelian zone; Reafforestation and soil and
water conservation; Supervises and participates in the
activities of Institut Voltaique de Recherche
Agronomique et Zootechnique, Inst. de Recherche en
Biologie et Ecologie Tropicale, Inst. de Recherche en
Sciences Sociales et Humaines;

New activities planned:

Publications:

Sources of Support:

Fixed Experimental stations
and their activities:

Source of Information: (1)

Code: N207

Name: Centre Burkinabe de la Recherche Scientifique

Address: BP 6, Ouagadougou,
BURKINA FASO

Cable/Telex:

Telephone:

Name of the Head of
the Organ:

Title: Directeur

No. of Professionals:

Main Internal Organization:

Subject Areas of Concern: Economic development. Social aspects. Desertification
control. Ecology. Settlements.

Specific activities
being carried out:

New activities planned:

Publications:

Sources of Support:

Fixed Experimental stations
and their activities:

Source of Information: (1)

Code: N208

Name: Centre Régional de Télédetection

Address: B.P. 1762, Ouagadougou,
BURKINA FASO

Cable/Telex:

Telephone: 33 50 91, 33 51 39

Name of the Head of
the Organ: L. Okio

Title: Directeur Général

No. of Professionals: 8

Main Internal Organization:

Subject Areas of Concern: Natural resources. Agriculture. Geology. Hydrogeology.
Settlements. Training and education. Remote sensing.

Specific activities
being carried out: Agriculture; Geology; Professional training in remote
sensing; Human settlements.

New activities planned: Management of satellite data, organization of
congresses and seminars.

Publications: "Bulletin de Télédetection", (quarterly)

Sources of Support: African governments, bilateral assistance.

Fixed Experimental stations
and their activities: - Ouagadougou.

Source of Information: R

Code: N209

Name: Comité Interafricain d'Etudes Hydrauliques - CIEH

Address: B.P. 369, Ouagadougou,
BURKINA FASO

Cable/Telex: 5266 UV

Telephone: 33 35 18, 33 34 76

Name of the Head of
the Organ: Mr. A. Hassan

Title: Secrétaire Général

No. of Professionals: 15

Main Internal Organization: Intergovernmental organisation.

Subject Areas of Concern: Water resources. Hydrology. Hydrogeology. Climatology.
Water supply. Water conservation. Water quality.

Specific activities
being carried out: Numerous studies on: Hydrology; Hydrogeology;
Climatology; Urban and agricultural hydraulics;
Purification.

New activities planned:

Publications: "Bulletin de Liaison du CIEH" (quarterly);
Technical reports.

Sources of Support: 12 member Governments, UNDP, USAID UNESCO.

Fixed Experimental stations
and their activities: - Ouagadougou.

Source of Information: R

Code: N210

Name: Institut de Recherche en Biologie et
Ecologie Tropicale (IRBET)

Address: IRBET,
B.P. 7047, Ouagadougou,
BURKINA-FASO

Cable/Telex:

Telephone: 33 23 94

Name of the Head of
the Organ: E.G. Bonkougou

Title: Directeur

No. of Professionals: 10

Main Internal Organization:

Subject Areas of Concern: Ecology. Forestry. Training and education in
environment and lands. Forest management. Grasslands.
Savannas. Agroforestry. Ecosystems.

Specific activities
being carried out: Research on the structure and function of savanna
ecosystems; Research in natural forestry and
plantations.

New activities planned: Agroforestry, forest genetics, national herbarium.

Publications: "Revue du Centre National de la Recherche
Scientifique", (regular publication).

Sources of Support: Government, bilateral and multilateral agreements.

Fixed Experimental stations
and their activities: - Ouagadougou;
- Bobo-Dioulasso.

Source of Information: R

Code: N211

Name: Comité Permanent Inter-Etats de la Lutte Contre la Secheresse dans le Sahel (CILSS)

Address: B.P. 7049, Ouagadougou,
BURKINA FASO

Cable/Telex:

Telephone: 33 69 88, 33 48 70, 33 43 55, . 33 42 52

Name of the Head of the Organ: M. Brah

Title: Secrétaire Executif

No. of Professionals:

Main Internal Organization:

Subject Areas of Concern: Rural development and planning. Desertification control. Drought.

Specific activities being carried out: Planning; Strategy preparation; Co-ordination; Fund raising; Programme evaluation on rural development and Desertification control.

New activities planned: Preparation of national plans of action to combat desertification for its eight member states.

Publications: Through the Institut du Sahel.

Sources of Support: Government members, bilateral aid, UN aid.

Fixed Experimental stations and their activities:

Source of Information: R

Code: N212

Name: Direction de l'Aménagement Forestière
et du Reboisement

Address: Ministère de l'Environnement
et du Tourisme
B.P. 7044, Ouagadougou,
BURKINA FASO

Cable/Telex:

Telephone: 33 32 13

Name of the Head of
the Organ: Mr. J. Zongo

Title: Ingénieur des Eaux et Forêts

No. of Professionals: 21

Main Internal Organization: Department of the General Secretariat of the Ministry
of the Environment and Tourism.

Subject Areas of Concern: Forestry. Wood management. Wood technology. Fuelwood.
Agroforestry.

Specific activities
being carried out: Studies and implementation of forest development
plans; Agroforestry; Management and control of planted
forest areas; Dissemination of low cost stoves.

New activities planned: Popularization of agroforestry techniques.

Publications: Bi-annual reports, annual reports, technical documents.

Sources of Support: Government, World Bank, foreign governments such as
Switzerland, Sweden, F.R. Germany.

Fixed Experimental stations
and their activities: - Gampela: Agroforestry systems, in coop. with other
institutions such as Inst. Burkinabe d'Energie and
Centre National de Sciences Forestières.

Source of Information: R

Code: N213

Name: CIRAD-IRAT

Address: P.B. 596, Ouagadougou,
BURKINA FASO

Cable/Telex:

Telephone: 33 30 00

Name of the Head of
the Organ: R. Nicou

Title: Directeur

No. of Professionals: 9

Main Internal Organization:

Subject Areas of Concern: Crop production. Horticulture. Agriculture. Crop
response. Cultivation systems.

Specific activities
being carried out: Research on sorghum, maize, horticultural products,
water pumps and agricultural systems adapted to
semi-arid zones.

New activities planned:

Publications: "Agronomie Tropicale".

Sources of Support: Government and French Government.

Fixed Experimental stations
and their activities: - Saria;
- Faraico BA.

Source of Information: R

Code: N214

Name: Institut Géographique de Burkina Faso

Address: B.P. 7054, Ouagadougou,
BURKINA FASO

Cable/Telex: EQUIPEMENT-IGB / 5555 BF-MINISTERE

Telephone: 33 58 68, 33 59 16

**Name of the Head of
the Organ:** R. Pare

Title: Directeur Général

No. of Professionals: 54

Main Internal Organization:

Subject Areas of Concern: Topography. Mapping and cartography.

**Specific activities
being carried out:** Cartographic project of 1:50 000 of the main Burkina
River Basin; Aerial photography; Cartographic work;
Design and road studies.

New activities planned:

Publications: None.

Sources of Support: Government.

**Fixed Experimental stations
and their activities:** Ouagadougou.

Source of Information: R

Code: N215

Name: Inst. Français de Recherche Scientifique pour le Développement en Co-opération (ORSTOM)

Address: B.P. 182, Ouagadougou,
BURKINA-FASO

Cable/Telex: CAISCOP/ 5271 BF

Telephone: 33 62 84, 33 21 14

Name of the Head of the Organ: Dr. M. Grouzis

Title: Directeur

No. of Professionals: 18

Main Internal Organization:

Subject Areas of Concern: Climatology. Animal ecology. Hydrology. Agronomy. Social aspects. Environment.

Specific activities being carried out: Study of Sahelian and Sudanian environments; Basic research on the structure, functioning and dynamics of the environment and societies.

New activities planned: Development of programmes in certain areas of the country in relation to the dynamics of space use.

Publications: Reports and other series from ORSTOM.

Sources of Support: 95% from Ministry of Research and Technology of France, 5% from other sources.

Fixed Experimental stations and their activities: - Centre de Ouagadougou;
- Centre de Recherche Pluridisciplinaire;
- Station de la Marc d'Oursi;
- Antenne de Bobo-Dioulasso.

Source of Information: R

Code: N216

Name: Société Africaine d'Etudes et
Développement

Address: P.B. 593, Ouagadougou,
BURKINA-FASO

Cable/Telex: -/1111 or 1112 BCTR BURKINA-FASO

Telephone: 53 31 87

Name of the Head of
the Organ: B. Soulimawe

Title: Sociologue, Directeur-Général Adjoint

No. of Professionals: 4

Main Internal Organization:

Subject Areas of Concern: Reafforestation. Economics. Deforestation. Social
aspects. Forest management.

Specific activities
being carried out: A project of national exploitation of protected
forests; A socio-economic study of the Thiogo
protected forest.

New activities planned:

Publications:

Sources of Support: Contracts.

Fixed Experimental stations
and their activities:

Source of Information: R

Code: N217

Name: Bureau Régional de l'UNSO

Address: B.P. 366, Ouagadougou,
BURKINA FASO

Cable/Telex: -/5262 BF

Telephone: 33 67 81

Name of the Head of
the Organ: E.P. Nzekio

Title: Chef du Bureau Regional

No. of Professionals: 6

Main Internal Organization: Part of UNDP, New York.

Subject Areas of Concern: Desertification control. Natural resources.
Irrigation. Agriculture. Cattle. Forage production.
Forage plants. Animal health. Environment. Sand dunes.
Renewable energy. Forestry. Reafforestation.
Afforestation. Water resources. Water management.
Drought.

Specific activities
being carried out: Identification and project formulation within the
fields of desertification, environmental protection
and drought.

New activities planned: Assist 21 countries to prepare the plan of action to
combat desertification, monitoring and supervising
on-going projects, programming new projects.

Publications: Annual report, and report on priority projects of
CILSS countries.

Sources of Support: Special funds of UNSO, direct contributions from
country donors to specific projects. UNEP.

Fixed Experimental stations
and their activities:

Source of Information: R

Code: N218

Name: Eclaireuses - Eclaireurs de Burkina Faso

Address: B.P. 2500, Ouagadougou,
BURKINA FASO

Cable/Telex:

Telephone: (33) 59 80

Name of the Head of
the Organ: S. Lingani

Title: Délégué Général

No. of Professionals: 427 members

Main Internal Organization: General Administration/Executive Bureau; Regions and
Units

Subject Areas of Concern: Environmental training and education. Afforestation.
Reafforestation. Greenbelts.

Specific activities
being carried out: "Operation Faso Vert": Planting and protection of
plants, supervision of youth in villages.

New activities planned: Lenlo forest: project to replant 10000 seedlings in
the framework of International Youth Year .

Publications: "Lenlo Scout" (training bulletin).

Sources of Support: Government, World Scout Federation.

Fixed Experimental stations
and their activities: Zenlo, Forest of Bullole: experiments on indigenous
species.

Source of Information: R

Code: N219

Name: Centre de Formation Maraîchère Adventiste
- Bazega

Address: B.P. 592, Ouagadougou,
BURKINA FASO

Cable/Telex:

Telephone: 33 60 78

Name of the Head of
the Organ: G. Oliver

Title:

No. of Professionals: 2

Main Internal Organization: Private school attached to the Adventist Church.

Subject Areas of Concern: Horticulture. Training and education. Food supply.
Relief activities.

Specific activities
being carried out: Operating a health centre; Distribution of aid food;
Horticultural training.

New activities planned:

Publications:

Sources of Support: Sale of agricultural products from the school, trust
funds of the Adventist Church.

Fixed Experimental stations
and their activities:

Source of Information: R

Code: N220

Name: Institut Panafricain pour le Développement,
Direction Régionale Afrique de l'Ouest-Sahel (IPD/AOS)

Address: B.P. 1756, Ouagadougou,
BURKINA FASO

Cable/Telex: PANINSTIT/-

Telephone: 33 68 73, 33 69 25

Name of the Head of
the Organ: M. Fall

Title: Directeur

No. of Professionals: 14

Main Internal Organization:

Subject Areas of Concern: Rural development and planning. Land resources. Land
management. Land evaluation. Training and education.
Social aspects. Agronomy.

Specific activities
being carried out: Post-graduate course on regional planning and land
development; Short seminars; Field research.

New activities planned: Long and short-term training courses on planning and
land development, studies and consultations, research
and dev, socio-economic surveys, agronomic surveys.

Publications: Monographs and books.

Sources of Support: African states (20%), western countries (Switzerland,
France, USA, Canada, F.R. Germany, Netherlands,
Belgium, etc.) through aid agencies, international
organizations (UNDP, UNICEF, FAO, etc.) and
foundations (ISI, FORD, etc.)

Fixed Experimental stations
and their activities:

Source of Information: R

Code: N221

Name: Se Servir de la Saison Seche en Savanne et
au Sahel

Address: B.P. 100, Ouahigouya,
BURKINA FASO

Cable/Telex: B.P. 100 Ouahigouya (Burkina Faso)/-

Telephone

Name of the Head of
the Organ: L.B. Ovedraogo

Title: Sècretaire Général Exécutif

No. of Professionals:

Main Internal Organization: Federation of Farmers Unions of Senegal, Mali, Burkina
Faso.

Subject Areas of Concern: Catchments. Forests. Soil amendment. Soil management.
land reclamation. Agricultural products.

Specific activities
being carried out: Water catchments; Tree planting; Soil protection; Land
reclamation; Vegetable marketing.

New activities planned:

Publications:

Sources of Support: Government and other sources.

Fixed Experimental stations
and their activities: None.

Source of Information: R

Code: N300

Name: Department of Agriculture,
Ministry of Agriculture and Water Development

Address: Mlungushi House
P.O. Box RW 50291, Lusaka,
ZAMBIA

Cable/Telex:

Telephone: 21 35 51

Name of the Head of
the Organ: Mr. N.E. Mumba

Title: Director of Agriculture

No. of Professionals: 19

Main Internal Organization:

Subject Areas of Concern: Land use. Agriculture. Soil surveys. Demography.
Reservoirs. Mapping and cartography. Water supply.
Agricultural mechanization. Water resources.

Specific activities
being carried out: Farm plans, demarcations and budgets; Soil surveys
(systematic and ad hoc); Topographic and demographic
surveys; Design and construction of dams, weirs,
contours, farm ponds, irrigation layouts including
unlined furrows; Production of mosaics and other
cartographic and photographic materials for
agricultural planning; National advisory services
covering farm and livestock buildings, farm water
supplies (reservoirs) and agricultural mechanization.

New activities planned:

Publications: "Farming in Zambia" (quarterly).

Sources of Support: Government.

Fixed Experimental stations
and their activities:

Source of Information: (1)

Code: N302

Name: Biology Department,
University of Zambia

Address: P.O. Box 32379, Lusaka,
ZAMBIA

Cable/Telex:

Telephone:

Name of the Head of
the Organ: Dr. J.N. Zulu

Title: Head

No. of Professionals:

Main Internal Organization:

Subject Areas of Concern: Ecology. Plant biology. Training and education in
animals and environment. Vegetation. Conservation.
Wildlife.

Specific activities
being carried out: Vegetation conservation studies; Evaluation of
wildlife conservation programme.

New activities planned:

Publications: None.

Sources of Support: Government.

Fixed Experimental stations
and their activities: None.

Source of Information: R

Code: N303

Name: Geography Dept., University of Zambia

Address: P.O. Box 32379, Lusaka,
ZAMBIA

Cable/Telex: -/ZA 44370

Telephoe:

Name of the Head of
the Organ: Dr. E.S. Kalapula

Title: Head of Department

No. of Professionals: 16

Main Internal Organization:

Subject Areas of Concern: Agriculture. Rural development and planning. Fuelwood.
Energy.

Specific activities
being carried out: Student projects for M.A. and MSc.; research work.

New activities planned:

Publications: "Zambia Geographical Journal", school supplement,
newsletter.

Sources of Support: Various.

Fixed Experimental stations
and their activities:

Source of Information: R

Code: N304

Name: Division of Forest Research

Address: P.O. Box 22099, Kitwe,
ZAMBIA

Cable/Telex: SILVIC KITWE/-

Telephone: Kitwe 21 10 88

Name of the Head of
the Organ: Dr. G.D. Pearce

Title: Acting Chief Forest Research Officer.

No. of Professionals: Nine.

Main Internal Organization: Nine research sections.

Subject Areas of Concern: Forestry. Botany. Ecology. Entomology. Pathology. Soil
science. Reafforestation.

Specific activities
being carried out: Numerous research projects in accordance with national
and local policies and programmes.

New activities planned: Rehabilitation of the Zambezi Teak Forest.

Publications: Forest research bulletins, Pamphlets and notes.

Sources of Support: Governments, international agencies such as Finish
International Development Agency, International
Development Research Centre.

Fixed Experimental stations
and their activities: - Chat and Dola Hill;
- Siomambo;
- Teak Forest.

Source of Information: R

Code: N305

Name: Natural Resources Department

Address: Box 50042, Lusaka,
ZAMBIA

Cable/Telex: NATRES/-

Telephone: 21 34 05

**Name of the Head of
the Organ:** Mr. E.N. Chidumayo

Title: Conservator of Natural Resources.

No. of Professionals: 10

Main Internal Organization:

Subject Areas of Concern: Soil conservation. Deforestation. Environmental
education. Catchments. Natural resources.

**Specific activities
being carried out:** Deforestation monitoring; Catchment management;
research in natural resources.

New activities planned:

Publications: Monographs and brochures (occasional).

Sources of Support: Government.

**Fixed Experimental stations
and their activities:**

Source of Information: R

Code: N307

Name: Water Resources Research Unit

Address: NCSR, P.O. Box CH.158,
Chelston, Lusaka
ZAMBIA

Cable/Telex:

Telephone:

Name of the Head of
the Organ: Dr. T.C. Sharma

Title: Head

No. of Professionals: 10

Main Internal Organization:

Subject Areas of Concern: Hydrology. Water resources. Water quality. Water
management. Water pollution. Soil erosion. Catchments.
Runoff. Groundwater.

Specific activities
being carried out: Hydrologic studies in the Kafue head waters; Water
resource inventory of the Kafue basin; Water pollution
and control studies.

New activities planned: Catchment studies in southern Zambia, soil erosion
studies.

Publications: "Zambia Journal of Science and Technology", technical
reports.

Sources of Support: Government.

Fixed Experimental stations
and their activities: - Luane Catchment Research Station, Zambian copper
belt: Monitoring rainfall, runoff, ground-water.

Source of Information: R

Code: N400

Name: Zimbabwe College of Forestry,
Forestry Commission

Address: P.O. Box 660, Mutare,
ZIMBABWE

Cable/Telex:

Telephone: Mutare 643 28, 643 51

**Name of the Head of
the Organ:** R.L. Hopper

Title: Principal

No. of Professionals: Eight.

Main Internal Organization:

Subject Areas of Concern: Forestry. Training and education. Soil. Soil types.
Soil conservation. Environment.

**Specific activities
being carried out:** Forestry training at diploma level (2-years) and
forest ranger level (1-year).

New activities planned: Updating training material.

Publications: None.

Sources of Support: Government, FAO.

**Fixed Experimental stations
and their activities:** None.

Source of Information: R

Code: N401

Name: Zimbabwe National Conservation Trust

Address: P.O. Box 8575, Causeway,
ZIMBABWE

Cable/Telex: SABLES/-

Telephone: Harare 700 300

Name of the Head of
the Organ: Hor. J.C. Graylin

Title: Chairman

No. of Professionals:

Main Internal Organization:

Subject Areas of Concern: Natural resources. Training and education. Soil
erosion. Wildlife management.

Specific activities:
being carried out: In connection with a wide range of Government and NGO
projects on soil erosion, siltation of dams and rivers.

New activities planned: Wildlife capture control and translocation, vulture
research, development of recreation areas.

Publications: "The Conservationist" (bi-monthly).

Sources of Support: Industrial and commercial enterprises, banks,
international organizations.

Fixed Experimental stations
and their activities: None.

Source of Information: R

Code: N402

Name: Department of Biological Sciences,
University of Zimbabwe

Address: P.O. Box PM 167, Mount Pleasant,
Harare
ZIMBABWE

Cable/Telex: UNIVERSITY/4-152 ZM

Telephone: 30 32 11 extn. 446

**Name of the Head of
the Organ:** Prof. M.J. Swift

Title: Chairman, Dept. of Biological Sciences

No. of Professionals: 22

Main Internal Organization: Divisions of: Botany; Ecology; Microbiology;
Entomology; Zoology.

Subject Areas of Concern: Botany. Ecology. Vegetation. Soil-water-plant
relationships. Grazing. Mapping and cartography.
Nutrients. Nitrogen cycle. Catchments. Soil sciences.

**Specific activities
being carried out:** Vegetational mapping and classification.

New activities planned: Nutrient cycling studies, studies on effects of
grazing on vegetation and soil, catchment studies.

Publications: Mainly papers in scientific periodicals.

Sources of Support: Government and foreign aid.

**Fixed Experimental stations
and their activities:** - University Lake Kariba Field Station: Catchment
studies.

Source of Information: R

Code: N403

Name: University of Zimbabwe

Address: P.O. Box M.P. 167, Harare,
ZIMBABWE

Cable/Telex:

Telephone: 30 32 11 extn. 265

Name of the Head of
the Organ: Dr. C.C. Mutambirwa

Title: Chairman

No. of Professionals: 9

Main Internal Organization:

Subject Areas of Concern: Soil degradation. Rural development and planning.
Agriculture. Land evaluation. Land surveys.

Specific activities
being carried out: Land degradation survey of Zimbabwe; Study of uses and
degradation of wetlands; Development of agricultural
co-operatives.

New activities planned:

Publications: Technical papers published through various journals
e.g. Geographical Proceedings of Zimbabwe, Zimbabwe
Agricultural Journal.

Sources of Support: Government.

Fixed Experimental stations
and their activities: None.

Source of Information: R

Code: N404

Name: Department of Land Management
University of Zimbabwe

Address: P.O. Box MP 167, Mount Pleasant,
Harare
ZIMBABWE

Cable/Telex: UNIVERSITY/4152 ZW

Telephone: 30 32 11 ext. 412

Name of the Head of
the Organ: Dr. K.W. Nyamapfene

Title: Chairman

No. of Professionals: 11

Main Internal Organization: Teaching and research.

Subject Areas of Concern: Land use. Conservation. Reclamation.

Specific activities
being carried out: Design of appropriate land management practices for
the Zambezi Valley semi-arid region.

New activities planned:

Publications: In preparation.

Sources of Support: Government, grants from Ford Foundation, IDRC.

Fixed Experimental stations
and their activities: None.

Source of Information: R

Code: N405

Name: Department of National Parks and
Wildlife Management

Address: P.O. Box 8365, Causeway,
ZIMBABWE

Cable/Telex: PARKLIFE ZIMBABWE/-

Telephone: 70 76 24

Name of the Head of
the Organ: Dr. G.F.T. Child

Title: Director

No. of Professionals:

Main Internal Organization: Within Ministry of Natural Resources and Tourism.

Subject Areas of Concern: Conservation. Wildlife management. Flora. Fauna. Water
conservation. Soil conservation. Fisheries. Biomes.
Ecosystems. Ecology.

Specific activities
being carried out: Research on soils and aquatic and terrestrial
ecosystems; Management and utilization of wildlife
resources including fisheries.

New activities planned: Creation of Biosphere reserves with the guidance of
the National MAB Committee.

Publications: None.

Sources of Support: Government.

Fixed Experimental stations
and their activities: - Sengwa Research Station;
- Kariba Fisheries Research Institute with aquatic
sub-stations scattered throughout the country.

Source of Information: R

Code: N408

Name: Ministry of Natural Resources and Tourism

Address: P.O. Box 8070, Causeway,
Harare
ZIMBABWE

Cable/Telex:

Telephone: 70 44 55

Name of the Head of
the Organ: M. Tagwireyi

Title: Permanent Secretary

No. of Professionals: 15

Main Internal Organization: Department of Natural resources.

Subject Areas of Concern: Reafforestation. Land reclamation. Grazing systems.
Overgrazing. Soil erosion. Arable lands. Soil surveys.
Wood management. Soil conservation.

Specific activities
being carried out: Encouraging conservation of arable lands; Promoting
grazing schemes, reafforestation and land reclamation.

New activities planned: Consolidating gardening on a co-operative basis, soil
loss surveys, establishing village woodlots.

Publications: Various, on general matters.

Sources of Support: Government.

Fixed Experimental stations
and their activities:

Source of Information: R

Code: N409

Name: Department of Rural Development

Address: P.B. 7743, Causeway,
Harare
ZIMBABWE

Cable/Telex: 2465 LANDS ZW

Telephone: (Harare) 70 05 96

Name of the Head of
the Organ: S. Geza

Title: Director

No. of Professionals: 35

Main Internal Organization: Within Ministry of Lands.

Subject Areas of Concern: Rural development and planning. Settlements.
Irrigation programmes. Reclamation. Land use. Land
management.

Specific activities
being carried out: Resettlement with associated land development,
irrigation, and planning.

New activities planned: Communal area re-development, reclamation.

Publications:

Sources of Support: Government.

Fixed Experimental stations
and their activities:

Source of Information: R

Code: N410

Name: Forestry Commission

Address: P.O. Box 8111, Causeway,
Harare
ZIMBABWE

Cable/Telex: FORCOMM

Telephone: 70 62 16

Name of the Head of
the Organ: P. Banks

Title: Director

No. of Professionals: 38 (Two involved with desertification).

Main Internal Organization:

Subject Areas of Concern: Mapping and cartography. Remote sensing. Vegetation.

Specific activities
being carried out: Preparing vegetation maps with remote sensing methods.

New activities planned:

Publications: Monographs published through "Zimbabwe Science News".

Sources of Support: World Bank.

Fixed Experimental stations
and their activities: None.

Source of Information: R

Code: N411

Name: Henderson Research Station

Address: P.B. 2004, Mazowe,
ZIMBABWE

Cable/Telex: AGRIZOE/-

Telephone: 481, 482

Name of the Head of
the Organ: Dr. C.T. McCabe

Title: Head of Station

No. of Professionals: 17

Main Internal Organization:

Subject Areas of Concern: Pastures. Animal husbandry. Cattle. Sheep. Dry
farming. Animal health. Animal physiology.

Specific activities
being carried out: Physiological studies on post-partum infertility
(artificial insemination and early embryo loss);
Intensive husbandry of sheep; Physiological, nutrition
and husbandry of dairy cattle; Investigation of
dryland fertilized pastures (beef); Investigation of
dryland legume pastures.

New activities planned: Legume-based pastures for low-level milk production,
national goat research centre (3 year-French Technical
aid), investigation of productivity of indigenous
(Sanga) cattle under various systems of management,
integrated farming systems research in association
with ILCA (3-year programme, extension of initial 15
year programme).

Publications: Annual reports, handbooks, "Zimbabwe Agricultural
Journal" (monthly), "Research Output", occasional
papers.

Sources of Support: Government.

Fixed Experimental stations
and their activities:

Source of Information: (1)

Code: N412

Name: Hlekweni Friends Rural Service Centre

Address: P.O. Box 708, Bulawayo,
ZIMBABWE

Cable/Telex:

Telephone: 731 62/3

Name of the Head of
the Organ: Mr. M.S. Ncube

Title: Director

No. of Professionals: 15

Main Internal Organization:

Subject Areas of Concern: Training and education. Rural development and
planning. Settlements. Agriculture. Appropriate
technology.

Specific activities
being carried out: Training in: Agriculture; Carpentry; Metalwork;
Building; Appropriate technology and pre-school
education.

New activities planned: Black-smithing.

Publications: Newsletter (annually).

Sources of Support: Foreign donors.

Fixed Experimental stations
and their activities:

Source of Information: R

Code: N413

Name: Institute of Agricultural Engineering (The)

Address: P.O. Box BW 330, Borrowdale,
ZIMBABWE

Cable/Telex: -/2455 AGRIC ZW

Telephone: 88 27 22, 88 31 19, 88 31 18, 88 23 76.

Name of the Head of the Organ: A.J. Spear

Title: Chief Engineer, Head of Institute.

No. of Professionals: 11

Main Internal Organization: Sections of Research; Training and Extension.

Subject Areas of Concern: Rural dev. and planning. Agriculture. Agricultural engineering. Alternate energy. Agricultural mechanization. Soil management. Water management. Tillage.

Specific activities being carried out: Soil tillage research/extension; Soil and water engineering research/extension; Alternate energy research/extension; Oxen hand mechanization research and extension.

New activities planned:

Publications: Annual report, technical reports (irregular).

Sources of Support: Government and some assistance from UN and GTE.

Fixed Experimental stations and their activities: - At the Inst. of Agricultural Engineering.

Source of Information: R

Code: N414

Name: Matopos Research Station

Address: P.B. K5137, Bulawayo,
ZIMBABWE

Cable/Telex: MATAGRIC

Telephone: Matopos 2.

Name of the Head of
the Organ: H.K. Ward

Title: Head of Station.

No. of Professionals: 11

Main Internal Organization: Research teams of: Range ecology and management; Range
livestock; Nutrition; Livestock breeding; Short season
crops.

Subject Areas of Concern: Rangelands. Range management. Ecology. Livestock.
Animal production. Grasses. Water use. Cattle.
Grazing. Agronomy. Runoff. Sheep.

Specific activities
being carried out: Studies of fire, runoff, water use by range grasses,
range utilization by livestock, control of weed
species, leuceona and forage legumes, goat browse
preferences, beef cattle stocking rates, cattle
intake, cattle crossbreeding; Development of Nkone and
Tuli indigenous cattle and sheep (non-wool); Cultivor
testing and related agronomy practices.

New activities planned: Goat reproduction, on range cattle/goat productivity,
fibre and forage quality evaluation.

Publications: Annual reports, research papers.

Sources of Support: Government, international organizations.

Fixed Experimental stations
and their activities: - Itself: Comprising 26000 ha organized in six
operational units, it is also the site of SADCC.
ICRISAT Regional Centre.

Source of Information: R

Code: N416

Name: Ministry of Energy and Water Resources and Development

Address: P.B. 7712, Causeway,
Harare
ZIMBABWE

Cable/Telex:

Telephone: 70 78 61

Name of the Head of the Organ: Mr. D. Saunders Dell

Title: Permanent Secretary

No. of Professionals: 282

Main Internal Organization:

Subject Areas of Concern: Energy. Water resources. Water supply. Water management. Afforestation. Rural development and planning. Water allocation. Water harvesting. Sediments. Hydrology.

Specific activities being carried out: Control and monitoring the operations of agencies which implement the Energy Supply Plan; Technical research and development of energy resources; Demonstration and extension of technologies concerning energy matters; Design and construction of canals and dams; Collection and analysis of hydrological data; Water boring and well sinking for Government; Water supply works in communal lands for private sector .

New activities planned: Monitoring of sedimentation of major dams, rural afforestation.

Publications: "Annual Hydrological Yearbook and Summaries".

Sources of Support: Government.

Fixed Experimental stations and their activities: - 350 automatic hydrological recording stations;
- 236 water level stations;
- 70 evaporation stations;
- Six sediment measuring stations.

Source of Information: R

Code: N418

Name: Society of Zimbabwe (The)

Address: P.O. Box 2128, Harare
ZIMBABWE

Cable/Telex:

Telephone:

Name of the Head of
the Organ: K. Damstra

Title: Acting Chairman

No. of Professionals: None

Main Internal Organization:

Subject Areas of Concern: Forests. Wood technology. Wood management. Forest
management.

Specific activities
being carried out: Education; Preservation of local woodland and forest
areas; Woodlot demonstration activities.

New activities planned:

Publications: Monthly newsletter.

Sources of Support: Subscriptions.

Fixed Experimental stations
and their activities: None.

Source of Information: R

Code: N420

Name: Wildlife Society of Zimbabwe

Address: P.O. Box 3497, Harare,
ZIMBABWE

Cable/Telex:

Telephone: 70 04 51

Name of the Head of
the Organ:

Title:

No. of Professionals:

Main Internal Organization:

Subject Areas of Concern: Wildlife. Natural resources. Conservation. Forests.
Afforestation. Appropriate technology. Pollution.
Environmental training and education. Environmental
impact.

Specific activities
being carried out: Establ. and manag. of educational nature reserves
either alone or in association with governmental or
private organizations; Organising lectures, study days
and outings; Funding publication of books and
magazines; Conservation awareness programmes on
deforestation, poaching, wildlife utilization; Film on
Mana Pools/Mapata Gorge Controversy; Impact assessment
of the Zambezi River; Major accomplishments of the
organization in the last five years have been in the
field of educational resources.

New activities planned:

Publications: "Zimbabwe Wildlife" (quarterly magazine).

Sources of Support:

Fixed Experimental stations
and their activities:

Source of Information: (1)

Code: N500

Name: INADES-Formation

Address: B.P. 8, Abidjan 08,
IVORY COAST

Cable/Telex:

Telephone: 44 31 28

Name of the Head of
the Organ: E. du Loisy

Title: Director

No. of Professionals: 105

Main Internal Organization:

Subject Areas of Concern: Rural development and planning. Training and education
in agriculture. Animal husbandry. Crop production.
Livestock. Social aspects. Ecology. Soil management.
Forestry. Afforestation.

Specific activities
being carried out: Correspondence training courses in agriculture; Rural
development; Animation for farmers and rural
populations covering 10 African countries (Burkina
Faso, Burundi, Cameroon, Chad, Ethiopia, Ivory Coast,
Kenya, Rwanda, Togo and Zaire.)

New activities planned: Training and education in ecology, desertification
control, afforestation, soil conservation and erosion
control.

Publications: "Agripromo" magazine (quarterly)

Sources of Support: Donors and revenues from sales.

Fixed Experimental stations
and their activities:

Source of Information: R

APPENDIX I

QUESTIONNAIRE

MAIL TO: DC/PAC
UNEP
P.O.BOX 30552
NAIROBI, KENYA

DIRECTORY OF INSTITUTIONS DEALING WITH DESERTIFICATION CONTROL
AND ARID LANDS DEVELOPMENT.

COUNTRY: DATE:

NAME OF ORGANIZATION

POST ADDRESS:

TELEX : CABLE:

TELEPHONE:

TYPE OF ORGANIZATION (X):
GOVERNMENT: ... NON-GOV: ... U.N.: ... INTERNATIONAL: ... OTHER:

NAME OF EXECUTIVE OFFICER (MR/MS):

TITLE OF POST:

TOTAL STAFF:
NUMBER OF PROFESSIONALS WORKING IN DC(*) AND/OR OLD(**):

WORKING LANGUAGE(S):

SUBJECT AREAS OF CONCERN:

SPECIFIC (MAIN) ACTIVITIES BEING CARRIED OUT:
.....
.....
.....
.....
.....

REGION(S) OR COUNTRIES AFFECTED BY YOUR ACTIVITIES:

PUBLICATIONS (AND PERIODICITY):

SOURCES OF FINANCING SUPPORT:

EXPERIMENTAL STATIONS AND ACTIVITIES:

(*) DESERTIFICATION CONTROL, (**) DRYLAND DEVELOPMENT.