



*Directory of Agricultural
Research Institutions
in Asia and the Pacific Region*

SOUTH ASIA



Research Development Centre
Research and Technology Development Division
Food and Agriculture Organization of the United Nations
Rome, 1995



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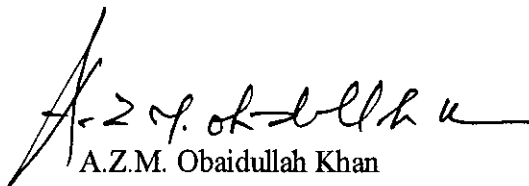
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FOREWORD

Research is the engine of growth and development. In order to meet the challenges of food security and agricultural production, especially during the past thirty years, countries in the Asia-Pacific Region have established and continue to strengthen their National Agricultural Research Systems (NARS). The policy, pattern, size, effectiveness and efficiency of the various NARS differ significantly. Thus, there is ample scope for sharing experiences and expertise of the different NARS.

The Asia Pacific Association of Agricultural Research Institutions (APAARI) has been at the forefront of strengthening the collective ability of the NARS in the Region through initiating and forging cooperation among them. Since its very inception in 1990, the Association has recognised that information related to agricultural research and technology development as well as mechanisms for sharing the information have been expanding rapidly. Therefore, information build-up and exchange became one of the priority areas of work of the Association. Preparation and bringing out of directories on NARS in the RAPA Region thus assumes considerable importance.

This directory includes brief profiles of various NARS in the South Asian sub-region, giving address, listing of thrust area(s) of research, number of scientists, budgetary allocation etc. of individual national research institutes. It is hoped that this document will greatly facilitate and further stimulate cooperation in agricultural research and technology development among nations of the sub-regions, region and the world as a whole. I greatly appreciate the support and encouragement provided by Dr. Mohamed S. Zehni, Director AGP and Dr. B. Muller-Haye, Chief, Research and Technology Development Division, FAO, Rome, towards this publication. I must congratulate Drs. R.B. Singh and R.S. Paroda, former and present Executive Secretary, APAARI, respectively, for compiling the information and bringing out the directory.



A.Z.M. Obaidullah Khan
Assistant Director General and
FAO Regional Representative for
Asia and the Pacific

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BANGLADESH

Selected Indicators of Agricultural Development

Total Area	: 13,391,000 Ha
Forest Coverage (%)	: 15%
Annual Average Change (%) (For 1980-89)	: -1.3%
Cultivated Area	:
Population	: 112,585,000
Annual Growth Rate of Population	: 2.7%
Agricultural Population	: 69%
Illiteracy Rate	: 65%
National GNP	: 24,672 million US \$
GNP Per Capita	: 220 US \$
GNP: Real Growth Rate (per capita)	: 1.7%
Share of Agriculture in GDP	: 34%
Growth Rate of Agricultural Production	:
Agricultural Export as % of Total Export	: 13%
Major Agricultural Commodities	: Rice, Paddy, Wheat, Jute, Fishery
Major Agricultural Imports	: Cereals, Vegetable Oils, Oil Seeds, Forestry Products
Major Agricultural Exports	: Jute, Tea, Vegetables, Meat

Selected Indicators of Research

State of Agriculture and Research

Bangladesh is one of the world's most densely populated and impoverished countries. Rural population is reasonably well distributed geographically except in the Chittagong hill tracts which are sparsely populated by ethnic minorities. Food production has not kept pace with population growth since 1971 although agriculture is the largest sector of the economy. The country imports foodgrains and lacks an extensive export base. Since 1973 the balance of payments on current accounts has been negative each year.

The country is divided into four administrative divisions, 64 districts, 495 upa zilas, 4,472 unions and 85,650 villages. Nearly all development and supply agencies have networks upto the up zila levels; agricultural extension, public health and landrevenue have networks as far as union level. About 50% of the rural households are landless and most adults migrate seasonally to urban or other areas.

The main objective of the government's agricultural policy has been to achieve self-sufficiency in food grains through the use of high yielding varieties of seeds along with fertilisers and irrigation. However, over the years the country has acquired a chronic food deficit and is increasingly relying on food grain imports.

Agricultural land is the most scarce resource. Although 63% of the total land is arable, the per capita arable land in 1985-86 was only 0.09 hectare. Intensity of cultivation is 153% ,and only 22% of the cultivated area is irrigated. There is no land classified as pasture. Only 5.6% of the total land is classified as cultivable waste and fallow where cattle, buffalo and goats scrounge. Except some small hills and highlands in the north-eastern and south-eastern parts, the country consists of plains. Large areas are flood-prone where farming is very risky.

The climate is warm and humid. Maximum temperatures range between low 40's in summer to high 20's in winter when minimum temperatures reach near 0. The annual rainfall ranges from 1400 mm to 3660 mm and decreases from east to west. Heaviest rains occur from late May to early October. December to March are the driest months.

Crop-livestock, mixed farming predominates. Rice, the major crop is grown in three principal seasons viz. aus, aman and boro. Jute, wheat,

sugarcane, potato, tobacco, oilseeds, pulses, vegetables and tea are important crops. Cattle, buffalo, goats, sheep and poultry are the common livestock nearly all of which are maintained by small farmers on crop by-products for which humans have little use. Animals provide nearly 98% of the draught power for crop production.

Commercialisation of food crops remains quite low. Although for most small and marginal farmers the marketable surplus of food crops is negative, they still sell part of their produce to meet essential seasonal family expenses.

Land Tenure

According to the 1983-84 Agricultural Census, out of 13.8 million rural households 22% had no land or only a homestead; 40% had a household plus cultivable land upto 0.4 hectare; 38% had a homestead plus cultivable land more than 0.4 hectare. Nearly all the cultivable land is privately owned except for some low-lying communal areas where cattle are seasonally grazed. Owner farmers account for 62.6% and tenant farmers for about 36% of all farms. Cooperatives and farmer's groups are organised by the government's cooperative department, banks and rural development agencies. Their functions are to provide credit and other inputs or services like purchase of fertilisers and irrigation equipment by farmers and petty trade by the landless.

Training Institutions

The Bangladesh Agricultural University and its two affiliated colleges together produce about 500 graduates annually in crop science, animal science, fisheries, agricultural economics and agricultural engineering. Several technical institutes award a few hundred agricultural diplomas (two year training after ten years of schooling). Virtually all of these graduates and diploma holders take up jobs in agricultural extension, research, credit, marketing and development organisations in various ministries and departments. Too many institutions appear to be involved in extension activities leading to duplication of work, evasion of responsibility and a waste of scarce resources.

The agricultural research base is regarded inadequate. Government allocation for agricultural research are not enough. There is relatively heavy emphasis on crop genetic research and less on soil fertility, water management and cultural practises. Likewise there is too much emphasis on rice and less on other crops. There is a general neglect of livestock and fisheries. There is a proliferation of individual programmes resulting in duplication of efforts and problems of coordination. Extension research linkages are weak. Market services and standards are limited. Farm power is inadequate and so are public services. Too many small farmers lack investment resources.

Development of Agricultural Research System

Formal agricultural research in the present Bangladesh began in 1880 when on the recommendation of the Famine Commission a Department of Agriculture was established. Systematic research on jute was started by the provincial government at the turn of the century. About the same time tea research was started by tea planters, traders and several government units. In 1893, the Bengal Veterinary College was established at Calcutta for veterinary education and research in the province. Rice research was started in 1907. In 1908, an agricultural research laboratory was established at Tejgaon to serve the provinces of Bengal and Assam. A chemist was appointed to develop sugarcane and tobacco trials. A 403-acre experimental station was set up at Dhaka to complement the Tejgaon laboratory. The Bengal Agriculture Institute was established at Tejgaon, Dhaka in 1938 to provide higher education (at graduate level) in agriculture.

The partition of India in 1947 resulted in the loss of jute, tea and sugarcane research centres and the veterinary education and research centre to India. A series of reorganisations were carried out and new organisations set up. Agriculture research activities were again disrupted during the 1971 liberation war. Subsequently, the new Government of Bangladesh undertook some reorganisation to strengthen the agricultural research system. In 1973, the Bangladesh Agricultural Research Council (BARC) was established to coordinate and promote agricultural research. In 1976, the authority of BARC was

enhanced to provide leadership to the National Agricultural Research System. Since 1975 the agricultural research system has grown rapidly. Most of the physical and manpower development of the agricultural research institutes has been made possible by support from donor agencies, prominent among them being the World Bank, USAID, Ford Foundation and the Australian, British and Japanese governments.

1. **BANGLADESH AGRICULTURAL RESEARCH COUNCIL. (BARC)**
 Farmgate, New Airport Road, Dhaka 1215, Bangladesh.
 Tel : 314295/ 316587/ 325061-65
 Telex : 642401 SHER BJ ATTN:BARC
 Cable : AGRESEARCH, DHAKA
2. 1973
3. A semi-autonomous body under the Ministry of Agriculture
4. Executive Vice Chairman
5. Administration and Finance
 Planning and Evaluation
 Crops
 Soils and Irrigation
 Agricultural Engineering
 Fisheries
 Livestock
 Forestry
 Agricultural Economy and Rural Sociology
 Nutrition
 Technology Transfer and Monitoring Unit
 Manpower and Training
6. None
7. Books 12652
 Current Periodicals 120
8. Bangladesh Journal of Agriculture
 agresearch News
 Bangladesh Agricultural Bibliography.
9. Scientists 61 [M.Sc./M.Sc.Ag-39; Ph.D-22]
 Technicians 7
- 10.

1. **BANGLADESH AGRICULTURAL RESEARCH INSTITUTE (BARI)**
 Joydebpur, Gazipur 1701, Bangladesh.
 Tel : (0681) 2091/ 2063
 Telex : 642401 SHER BJ
 Cable : RESAGRI
2. 1976
3. A unit of the Bangladesh Agricultural Research Council (BARC)
4. Director General.
5. Plant Breeding
 Agronomy
 Agricultural Economics
 Agricultural Engineering
 Analytical Services
 Entomology
 Horticulture
 On-Farm Research
 Pathology
 Post Harvest Technology
 Soil Science Farm
 Wheat Research Centre
 Oilseeds Research Centre
 Citrus and Vegetable Research Centre
 Pulses Research Centre.
6. B.Sc.Ag. (Hon);
 M.Sc.Ag

Ph.D (In collaboration with the Bangladesh Agriculture University)

7. Books 17000
Current Periodicals 257
 8. Bangladesh Journal of Agricultural Research
BARI Annual Report Research Highlights
Souvenir every ten years.
 9. Scientists 715 [Ph.D-50]
Technicians 511
 10. Taka 260.5 million.
-
1. **BANGLADESH INSTITUTE OF NUCLEAR AGRICULTURE (BINA)**
P.O. Box No 4, Mymensingh 2200, Bangladesh.
Tel : (091) 4047/4401-2.
 2. 1972
 3. An institute under the BARC
 4. Director.
 5. Plant Breeding
Plant Genetics
Plant Physiology
Soil Science
Plant Pathology
Entomology
Irrigation and Water Management
Agronomy
Extension and Communication
 6. None. But the BINA guides BAU students for their Ph.D and M.Sc (Ag) degrees.
 7. Books 2090
Current Periodicals 75
 8. Bangladesh Journal of Nuclear Agriculture
Annual Report.
 9. Scientists 114 [B.Sc -54; M.Sc/M.Sc.Ag/B.Sc.Ag (Hon) - 51; Ph.D - 9].
 10. Taka 19.1 million.
-
1. **BANGLADESH JUTE RESEARCH INSTITUTE (BJRI)**
Manik Mia Avenue, Dhaka 1207, Bangladesh.
Tel : 326718/310953
Cable: BAJRI
 2. 1951
 3. An institute under the BARC
 4. Director
 5. Jute Research (Agri)
Breeding
Agronomy
Soil Science
Plant Pathology
Entomology
Microbiology and Biochemistry
Economics and Statistics
Jute Research (Technology)
Chemistry and Biochemistry
Physics and Testing Technology
Mechanical Processing.
 - 6.
 7. Books 4500
Current Periodicals 17
 8. Jute and Jute Fabrics Bangladesh
Bangladesh Journal of Jute and fabrics Research
 9. Scientists 154
Technicians 389
 10. Taka 56.5 million.

1. **BANGLADESH TEA RESEARCH INSTITUTE**
Srimangal 3210, Maulvibazar, Bangladesh.
Tel : Srimangal - 225
Cable : TRESEARCH
2. 1957
3. An institute under the Tea Board, Ministry of Commerce,
4. Director
5. Soil Chemistry
Botany
Agronomy
Pest Management
Biochemistry
Technology
Statistics and Economy
Plant Introduction-cum-Farm
6. None
7. Books 1137
Current Periodicals 37
8. Tea Journal of Bangladesh
Annual Report
9. Scientists 29 [B.Sc -1; M.Sc - 26; Ph.D -2]
Technicians 10
10. Taka 25 million.

1. **COTTON DEVELOPMENT BOARD (CDB)**
4th Floor, Rear building, Khamarbari
Farmgate, Dhaka 1215, Bangladesh.
Tel : 310212/316598
2. 1972
3. A semi-autonomous body under the Ministry of Commerce,
4. Executive Director
5. Cotton Breeding
Agronomy
Pest Management
Soil Nutrition
Cotton Pathology
Seed Multiplication.
6. None
7. Books 550
Current Periodicals 4
- 8.
9. Scientists 73
Technicians 127
10. Taka 35 million.

1. **SUGARCANE RESEARCH AND TRAINING INSTITUTE (SRTI)**
Ishurdi, Pabna, Bangladesh.
Tel : 414
Cable : BASURI
2. 1973
3. An institute under the Sugar and Food Industries
Corporation, Ministry of Industries
4. Director
5. Agronomy and Soils
Physiology
Entomology
Pathology
Training and Communication
Agricultural Economics
Agricultural Engineering
Quarantine Station at Joydebpur, Gazipur
North Regional Station (NRS) at Thakurgaon

Field Stations at Jaipurhat, Darsana, Shibganj and Sreepur Support Services.

6. None
7. Books 2792
Current Periodicals 28
8. Bangladesh Journal of Sugarcane Annual Report
9. Scientists 87
Technicians 45
10. Taka 19.45 million

1. **SOIL RESOURCES DEVELOPMENT INSTITUTE (SRDI)**
Krishi Khamar Sarak, Farmgate, GPO Box 899,
Dhaka 1215, Bangladesh.
Tel : 313363/ 310844

2. 1983
- 3.
4. Director
5. Soil and Land Classification
Soil Correlation
Soil Survey Interpretation
Technical Support Services
Training
6. None
7. Books 2412
Current Periodicals 12
8. Regular Soil Survey Reports
Special Survey Reports
Special Investigation Reports
Upazila Land and Soil Resources Utilization Guide
Annual Report
9. Scientists 109
Technicians 108
10. Taka 17.25 million

1. **BANGLADESH LIVESTOCK RESEARCH INSTITUTE (BLRI)**
P.O. Savar Dairy Farm, Savar, Dhaka, Bangladesh.
Tel : 402827.

2. 1984
3. An Institute under the Ministry of Fisheries and Livestock
4. Director
5. Animal Health Research
Animal Production Research
Poultry Production Research
Livestock Economics Research and Marketing
Administration and Support Service
6. None
7. Books 2000
Current Periodicals 250
8. Annual Report.
9. Scientists 156 [B.Sc.-5; M.Sc.-142; Ph.D-9]
10. Taka 66.5 million.

1. **BANGLADSEH SERICULTURE RESEARCH AND TRAINING INSTITUTE**
P.O. Ghoramara, Rajshahi 6100, Bangladesh.

2. 1962
3. An Institute under the Bangladesh Small and Cottage Industries Corporation
4. Director
5. Mulberry
Silkworm
Seri-pathology
Ser-chemistry

Silk Technology
Training.

6. Postgraduate diploma in Sericulture
Diploma in Silk Technology
Certificate in Sericulture.
7. Books 1300
Current Periodicals 10
8. Bulletin of Sericulture Research.
9. Scientists 25
Technicians 50
10. Taka 8.5 million.

1. **FISHERIES RESEARCH INSTITUTE (FRI)**

Tel : (091) 4874/ 4828

2. 1984
3. An institute under the Ministry of Fisheries and Livestock
4. Director
5. Administration and Coordination Research Planning, Evaluation and Coordination Adaptive Research (Training and Extension) Engineering
6. None
7. Books 5,000
Current Periodicals 50
- 8.
9. Scientists 59 [B.Sc.-31; M.Sc.-22; Ph.D-6]
10. Taka 90 million

1. **BANGLADESH FOREST RESEARCH INSTITUTE (BFRI)**

P.O.Box 273, Chittagong, Bangladesh.

2. 1955
3. An institute under the BARC
4. Director
5. Silviculture Research
Seed Orchard
Soil Science
Silviculture Genetics
Mangrove Silviculture
Plantation Trial Unit
Forest Inventory
Forest Botany
Forest Protection
Minor Forest Products
Forest Economics and Statistics
Wildlife
Woodworking and Timber Engineering
Veneer and Composite Wood Products
Seasoning and Timber Physics
Pulp and Paper
Wood Preservation
Forest Chemistry
Service Engineering
Administration and Finance
- 6.
7. Books 10,000
Current Periodicals 91
8. Bano Biggan Patrika
Annual Report.
9. Scientists 89
Technicians 204
- 10.

1. **BANGLADESH INSTITUTE OF DEVELOPMENT STUDIES (BIDS)**
E -17, Agargaon, Sher-E-Bangla Nagar, Dhaka 1207, Bangladesh.
Tel : 323026 - 7/ 316959
Cable : BIDECON
Fax : 880-813023
2. 1957
3. An Institute under the Planning Commission, Ministry of Planning
4. Director General
5. General Economics
Agriculture and Rural Development
Industry and Physical Infrastructure
Population
Human Resource Development.
6. M.Sc (Ag). BIDS is also trying to award Ph.D in association with Dhaka University and some universities in the USA.
7. Books 8,000
Current Periodicals 850
8. Bangladesh Development Studies
BIDS Newsletter
Bangladesh Unnayan Shamikkha (Bangla)
BIDS Report.
9. Scientists 53 [M.Sc.-27; Ph.D - 6]
10. Taka 18.6 million (1990-91)

1. **BANGLADESH ACADEMY FOR RURAL DEVELOPMENT (BARD)**
Kotbari, Comilla 3505, Bangladesh.
Tel : 6102/ 6355/6428
Cable : BARD, Comilla.
2. 1959
3. A semi-autonomous institution under the Ministry of Local Government and Rural Development
4. Director General
5. Agricultural Development
Rural Education
Rural Economics
Rural Administration
Rural Sociology
Project
Training
Research
Administration
6. None
7. Books 53,051
Current Periodicals 130
8. The Journal of Rural Development
Pally Unnayan (Bangla)
Gram Unnayan (Bangla)
9. Scientists 51
10. Taka 18.5 million (1989-90)

1. **BANGLADESH RURAL DEVELOPMENT BOARD (BRDB)**
Palli Bhaban, 5 Kawran Bazar, Dhaka 1215, Bangladesh.
Tel : 315182 - 86
Telex : 671285 BRDB BJ
2. 1971
- 3.
4. Director General
5. Field Service
Finance
Administration
Planning, Evaluation and Monitoring
Training

Rural Programme.

6. None
7. Books 9167
Current Periodicals 349
- 8.
- 9.
10. Taka 704.1 million

1. RURAL DEVELOPMENT AGENCY (RDA)

Bogra 5842, Bangladesh.
Tel : 6511/ 6505/ 6076

2. 1974
- 3.
4. Director General
5. Agricultural Science
Social Science
Training
Research and Evaluation
Administration.
- 6.
7. Books 12,150
Current Periodicals 30
8. Bangladesh Rural Development Studies
Annual Report.
9. Scientists 37
Technicians 9
10. Taka 15.6 million.

1. FISHERIES AND LIVESTOCK INFORMATION DEPARTMENT (FLID)

Khamarbari, Farmgate, Dhaka 1215, Bangladesh.
Tel : 316585

2. 1986
3. A department under the Ministry of Fisheries and
Livestock
4. Director
5. Mass Media and Information
Research, Planning and Evaluation
Training and Publication
Photography and Short Film
Farm Broadcasts and Telecast.
- 6.
7. Audiovisual Equipment 14
Audiovisual Material 30
8. None.
9. Scientists 6
Technicians 60
10. Taka 6.39 million.

1. INSTITUTE OF FOOD AND RADIATION BIOLOGY (IFRB)

Atomic Energy Research Establishment
GPO Box No. 3787, Dhaka, Bangladesh.
Cable : PARAMANU

2. 1978
3. An institute under the Bangladesh Atomic Energy
Commission
4. Director
- 5.
- 6.
7. Books 407
Current Periodicals 34
- 8.
9. Scientists 54
Technicians 67
- 10.

1. **INSTITUTE OF FOOD SCIENCE AND TECHNOLOGY (IFST)**

BCSIR, Mirpur Road, Dhanmondi
Dhaka 1205, Bangladesh.
Tel : 502700
Cable : CONSEARCH

2. 1956
- 3.
4. Director
5. Technology of Plant Food Products
Technology of Animal Food Products
Technology of Food grains, Legumes and Oil Seeds
Microbiology
Biochemistry and Applied Nutrition
Food Science and Quality Control
Industrial Development
Rural Technology.
- 6.
7. Books 300
- 8.
9. Scientists 67
Technicians 17
10. Taka 13.5 million

1. **BANGLADESH FOREST ACADEMY (BFA)**

P.O.Amin Jute Mills
Chittagong 4211, Bangladesh.
Tel : 211237

2. 1964
3. An academy under the Ministry of Environment and Forest
4. Director
5. Forestry
6. B.Sc.(Pass)
M.Sc
7. Books 3833
Current Periodicals 10
Audiovisual Material 12
- 8.
- 9.
10. Taka 24.6 million.

1. **BANGLADESH UNIVERSITY OF ENGG & TECHNOLOGY**

Dhaka 1000, Bangladesh
Tel : 502349/ 505171 - 7/ 505188

2. 1978
3. An autonomous body under the University
Grants Commission (UGC), Ministry of Education
4. Head : Vice Chancellor
5. Department of Water Resources and other departments
6. M.Sc.Engg
Ph.D
7. Books 961
8. Bangladesh Journal of Water Resources Research.
9. Scientists 14 [B.Sc.-5; Ph.D -9]
- 10.

1. **INSTITUTE OF POSTGRADUATE STUDIES IN AGRICULTURE**

Salna, Gazipur 1703, Bangladesh

2. 1985
3. An institute under the Ministry of Agriculture
4. Director
5. Agricultural Economics
Agricultural Engineering
Agricultural Extension

Agricultural Statistics and Biometry
Agronomy
Crop Botany
Entomology
Genetics and Plant Breeding
Horticulture
Plant Pathology
Soil Science
Experimental Support Service (Farm Division)

6. Degrees Offered : M.Sc. (Ag)
7. Books 5117
Current Periodicals 127
- 8.
9. Scientists 24 [M.Sc.-3; Ph.D -21]
10. Taka 20 million

1. **INSTITUTE OF FORESTRY, UNIVERSITY OF CHITTAGONG**

Chittagong 4331, Bangladesh
Tel : (031) 210131 - 44 Extn - 314.

2. 1976
3. An Institute under the Ministry of Education
4. Director
5. Silviculture
Agroforestry
Forestry Extension
Forest Protection
Forest Products
Forest Soils
Forest Economy
Forest Mensuration and Inventory.
6. B.Sc (Hon) in Forestry.
7. Books 2723
Current Periodicals 2
- 8.
9. Scientists 14 [B.Sc.(Hon) -2; M.Sc.-12; Ph.D -1]
- 10.

1. **BANGLADESH AGRICULTURE UNIVERSITY**

Mymensingh, Bangladesh.
Tel : (091) 4333/ 5695-7
Cable : AGRIVARSITY, MYMENSINGH, BANGLADESH

2. 1961
3. Autonomous body under the Ministry of Education, Bangladesh.
4. Vice Chancellor - Prof Mohammad Ashraf Ali Khan
5. Principal Units : Faculty of Agriculture
Faculty of Agricultural Engineering and Technology
Faculty of Animal Husbandry
Faculty of Veterinary Science
Faculty of Agricultural Economics and Rural Sociology
Faculty of Fisheries
Graduate Training Institute

Affiliated institutions; Haji Mohammed Danesh Krishi College,
Basher Hat, Dinajpur; Bangladesh
Agricultural Institute, Dhaka
Patuakhali Krishi College, Patuakhali.
The Fisheries Research Institute and
the Institute of Nuclear Agriculture
are also located at the University campus.

6. Degrees Offered : B.Sc Ag.(Hon); B.Sc.Ag. Economics (Hon)
B.Sc A.H. (Hon); B.Sc. Fisheries (Hon)
B.Sc Agri Engg (Hon); D.V.M
- All 4 Years

M.Sc Ag.; M.Sc.Ag. (Extn Edn);
M.Sc Veterinary Science; M.Sc.A.H.;
M.Sc Agri Economics; M.Sc Agri Engg;
M.Sc Fisheries
- All 1 Year by course work
and thesis

Ph.D in all faculties - 3 Years by thesis.

7. Academic Year : July - June. (Not divided into terms)
8. Library : Books 151109
Current Periodicals 450
9. Publications : Bangladesh Journal of Agricultural Economics.
Bangladesh Journal of Agricultural Sciences.
Bangladesh Journal of Animal Husbandry.
Bangladesh Journal of Aquaculture.
Bangladesh Journal of Extension Education.
Bangladesh Journal of Fisheries.
Bangladesh Journal of Horticulture.
Bangladesh Journal of Plant Pathology.
Bangladesh Journal of Training and Development.
Bangladesh Veterinary Journal.
10. Manpower : Scientists 385 [B.Sc.- 8; M.Sc.-199; Ph.D-178]
11. Budget : Taka 153.8 million.

1. **CHITTAGONG UNIVERSITY (CU)**

University Post Office, Chittagong, Bangladesh.

Tel : (31) 210131-9/ 210141-4

2. 1966

3. Status : Autonomous body under the Ministry of Education,
Government of Bangladesh.

4. Head : Vice Chancellor - Prof R.I. Chowdhury

5. Principal Units : Faculty of Science having an Institute
of Forestry and six more faculties.

6. Degrees Offered : The Institute of Forestry offers
B.Sc. (Hon) and M.Sc in the Faculty
of Science
B.Sc (Hon) - 3 Years
M.Sc - 1 Year by course work.

7. Academic Year : July - June (2 Terms)

8. Institute of Forestry:

Scientists 15 [B.Sc.(Hons)-2; M.Sc.-12; Ph.D-1]

Technicians 1

9. Library : Books 149682
Current Periodicals 405
3723 Books and 2 periodicals in
the Institute of Forestry.

10. Publications :

11. Budget : Taka 176.853 million (1991). Seperate figures for the
Institute of Forestry not available.

BHUTAN

Selected Indicators of Agricultural Development

Total Area	: 46,500 Sq Km
Forest Coverage	: 55%
Annual Average Change (For 1980-89)	: 0.2%
Cultivated Area	: 8.8%
Population	: 1.497 million
Annual Growth Rate of Population	: 2.2%
Agricultural Population	:
Illiteracy Rate	: 62%
National GNP (1992)	: 263 million US \$
GNP Per Capita (1992)	: 180 US \$
GNP: Real Growth Rate (1985-92)	: 5.2%
Share of Agriculture in GDP (1992)	: 42%
Growth Rate of Agricultural Production	:
Agricultural Export as % of Total Export	:
Major Agricultural Commodities	:
Major Agricultural Imports	:
Major Agricultural Exports	:

Selected Indicators of Research

State of Agriculture and Research

Bhutan has an extremely diverse environment. Perennially snow capped peaks in the high Himalayas reach above 7500 metres. At lower elevations in the inner Himalayas there are alpine meadows and temperate forests. Most of the settled agriculture is concentrated along the main river valleys and in the foothills to the south. The southern foothills extend southwards into India for about 20 kms and consist of steep slopes covered with tropical forests. The southwest monsoon brings most of the rainfall ranging from 5000 mms on the south facing slopes of the southern hills to less than 500 mms in the high Himalayan ranges in the north. Six main agro-ecological zones have been recognized although there are substantial variations in micro climate within each zone. Rainfall and temperature largely determined by elevation are the principal determinants of agro-ecological zones. The six zones are :

1. The Alpine Zone : more than 3500 meters
2. The Temperate Zone: 2500-3500 meters
3. Warm Temperate Zone : 1800-2500 meters
3. Dry Sub-Tropical Zone : 1200-1800 meters
5. Humid Sub-Tropical Zone : 600-1200 meters
6. Wet Sub-Tropical Zone : 150-600 meters

Because of the unusual physical characteristics and large local differences in altitudes, there is almost as much variation within these agro-ecological zones as there is between them. Each locality or district is a mosaic of contrasting micro-climates, and the environment may differ quite significantly from one valley to the next. Along with altitude slope also strongly influences variations in micro-climates. Communication is difficult. Land suitable for cultivation occurs in small pockets. Consequently rural communities are usually isolated from one another. Efforts to develop a system of roads began only relatively recently during the 1960's. Only about

1. **CENTRE FOR AGRICULTURAL RESEARCH AND DEVELOPMENT (CARD)**

Wangdiphodrang, Bhutan.

Tel : 209

Cable : CARDWANGDI

2. 1982

3.

4. Director

5. Cereal Research (Rice and Wheat)

Oilcrops Research (Mustard and others)

Vegetable Research (Rice based)

On-farm Research (Rice, wheat, oil crops and others)

Seed Maintenance and Production.

6.

7. Books 264

Current Periodicals 963

8. CARD Annual Report

9. Scientists 5

Technicians 6

10. Nu 2 million

1. **KHANGMA RESEARCH CENTRE**

Kanglung, P.O. Tashigang Dzongkhag, Bhutan

2. 1987

3.

4. Assistant Research Officer

5.

6.

7.

8. Research report and technical manual for East Bhutan will be produced shortly.

9. Scientists 3

Technicians 4

10. Nu 0.177 million (1989-90)

Country	: Bhutan
Total Area	: 46,500 Sq Km
Forest Coverage	: 55%
Annual Average Change (For 1980-89)	: 0.2%
Cultivated Area	: 8.8%
Population	: 1.497 million
Annual Growth Rate of Population	: 2.2%
Agricultural Population	:
Illiteracy Rate	: 62%
National GNP (1992)	: 263 million US \$
GNP Per Capita (1992)	: 180 US \$
GNP: Real Growth Rate (1985-92)	: 5.2%
Share of Agriculture in GDP (1992)	: 42%
Growth Rate of Agricultural Production	:
Agricultural Export as % of Total Export	:
Major Agricultural Commodities	:
Major Agricultural Imports	:
Major Agricultural Exports	:

Bhutan has an extremely diverse environment. Perennially snow capped peaks in the high Himalayas reach above 7500 metres. At lower elevations in the inner Himalayas there are alpine meadows and temperate forests. Most of the settled agriculture is concentrated along the main river valleys and in the foothills to the south. The southern foothills extend southwards into

India for about 20 kms and consist of steep slopes covered with tropical forests. The southwest monsoon brings most of the rainfall ranging from 5000 mms on the south facing slopes of the southern hills to less than 500 mms in the high Himalayan ranges in the north. Six main agro-ecological zones have been recognized although there are substantial variations in micro climate within each zone. Rainfall and temperature largely determined by elevation are the principal determinants of agro-ecological zones. The six zones are :

1. The Alpine Zone : more than 3500 meters
2. The Temperate Zone: 2500-3500 meters
3. Warm Temperate Zone : 1800-2500 meters
3. Dry Sub-Tropical Zone : 1200-1800 meters
5. Humid Sub-Tropical Zone : 600-1200 meters
6. Wet Sub-Tropical Zone : 150-600 meters

Because of the unusual physical characteristics and large local differences in altitudes, there is almost as much variation within these agro-ecological zones as there is between them. Each locality or district is a mosaic of contrasting micro-climates, and the environment may differ quite significantly from one valley to the next. Along with altitude slope also strongly influences variations in micro-climates. Communication is difficult. Land suitable for cultivation occurs in small pockets. Consequently rural communities are usually isolated from one another. Efforts to develop a system of roads began only relatively recently during the 1960's. Only about 8.8% of the total land area is suitable for arable crop production and the economy is very dependent on trade with India. Exports to India include hydroelectric power, timber, timber products, potatoes, cardamom, ginger, temperate and tropical fruits. Arable agriculture, livestock and forestry are the dominant parts of the national economy contributing about 47% of the GDP and providing about 95% of the employment. The contributions of arable agriculture, livestock and forestry to GDP are 23.5%, 9.4% and 14.1% respectively. Most farming is subsistence and more than 90% of all farm produce is consumed at the source. There is some small scale commercial production of cardamom and citrus in the south. Around Thimpu also crops are grown for cash. Potatoes are an important cash crop particularly in the central and eastern parts of the country. The kind of cultivation practised depends on the slope of the land, the type of the soil and the availability of irrigation water. In the valleys where irrigation is available the crops cultivated are typically rice in the summer and wheat, buckwheat, mustard, pulses and vegetables in winter. For paddy rice the land has to be terraced. On slopes of more than 30% unirrigated land is also terraced for growing maize, potatoes and wheat. Some form of shifting cultivation for growing maize has been practised for generations. With the growing population and limited agricultural land the cultivation cycle has come down to about 3-5 years. Bullocks are used for ploughing but the traditional ploughs are primitive. Seed is usually sown broadcast. Weeding, harvesting and threshing are done by hand and crop residues are used for cattle feed. Maize and wheat yields are low (740 and 640 kg per hectare respectively). During winters farm animals are turned loose to browse and they damage winter crops, particularly wheat, to such an extent that many farmers are discouraged from growing winter crops at all. Traditional varieties of rice are preferred for their grain characteristics. Traditional production systems integrate crop, livestock and the use of the forest in a sustainable manner.

Wherever available forest litter and cattle manure are used to maintain soil fertility. Soil erosion is, however, substantial. There are about 420,000 head of cattle in the country, most of which, scrounge for feed in the forest, on roadsides and surroundings of the farms. Individual farmers may own 5-6 heads of cattle but some of the animals are also assembled into larger herds that move between the forests in winter and pastures in summer.

It is estimated that there may be 3 times as many cattle as the available land can sustain under the present system of land use.

The per capita availability of cultivable land is only about 0.28 hectare. Mountainous terrain makes agriculture very labour - intensive and the potential for labour - saving technology is very restricted. Consequently, cost of production of staples like rice is higher than in neighbouring India. Isolation of individual holdings and of areas of production from one another and from main markets makes the development of a market economy slow and difficult. Maize is the major food crop nationally and can be grown more readily than rice in many parts of the country. It dominates the rainfed and shifting cultivation areas but without the development of a market farmers have no incentive to produce a surplus for sale. Currently only very small quantities of domestically produced rice, maize and edible oils are marketed within Bhutan for consumption by urban population. The demands of the urban population for these products are currently met from imports and maize in Bhutan can not be produced cheaply enough for exports.

The current system of land ownership with communal use of grazing land does not provide any incentive to farmers towards pasture and fodder development. Also for cultural and religious reasons there is no commercial market for livestock. The inter-dependence of crops, livestock and forests at the farm level is a characteristic of the existing production system. Diversification of agriculture to produce commodities like essential oils, fruits, spices, timber products may be a better option than attempting to increase production of cereals, mainly rice. There is scope for improving the diversity and amount of production in the irrigated rice lands by growing wheat, pulses, and oilseeds in rotation with rice. The rainfed land production systems occupy a much larger area account for most of the food staples other than rice. On the better quality rainfed lands the principal crops are maize and potato, but secondary crops include upland rice, millet, barley and buckwheat. On steeper slopes and more marginal land shifting cultivation is practised. These production systems together account for about 60% of the arable crops produced with few inputs.

Currently, Bhutan has a rural subsistence agriculture alongside a small but growing urban market system. Because of difficulties in communication within the country these urban markets rely mainly on imports. Continuing dependence on imports for food supplies will require greater commercialisation and specialisation of Bhutan's agriculture with the balance of attention shifting towards those crops in which the country has a comparative advantage over neighbouring India. Lower priority will have to be given to those crops, like rice, for which Bhutan has no comparative advantage and can import. Much more attention would also have to be given to the production of rainfed crops and high value crops on irrigated lands namely, temperate fruits, vegetables, oranges and cardamoms. There is potential for substantial development of horticultural crops and there is need for scientific studies on sources of planting material, diversity of adapted species and development of the domestic and export markets for horticultural produce.

Current Status of Agricultural Research System

The National Agricultural Research System of Bhutan is relatively new. The first agricultural research centre (Centre for Agricultural Research and Development, Wangdiphodrang) was established in 1982. The first forestry research centre (Forest Research Centre, Taba) was set up in 1987. The most recent centre is a forestry seed station which was established in 1989. In general, the national agricultural research system suffers from its newness in terms of its organisation and research capacity. Agricultural research is implemented by three departments of the Ministry of Agriculture, namely the Department of Agriculture (DOA); the Department of Animal Husbandry (DOAH) and the Department of Forestry (DOF). Each of these departments has a Research Division which coordinates the activities of a number of research centres/stations located in different parts of the country. The research programmes are independently planned and implemented by each Department.

The national research system is relatively small having about 72

research personnel, 38 of whom are scientists. These scientists are distributed among 12 research centres and research stations - 5 in agriculture, 5 in animal husbandry and 2 in forestry. Arable agricultural research is coordinated by a research sub-division under the Research and Extension Division of the DOA established in 1989. There are 5 crop-based research centres and 2 discipline-oriented centres. Livestock research is coordinated by DOAH which established its Training, Research and Extension Division in 1987. There are 5 centres undertaking research 3 of which conduct mainly fodder research. Forestry research started with the establishment of the Forest Research Division in 1987. There is a main research centre and some supporting laboratories at Taba near Thimphu, and a small field station in Lama Gompa. In addition to the DOA, DOAH and DOF, the Ministry of Agriculture consists of 2 Divisions namely Administrative and Finance Division (AFD) and the Planning and Policy Division (PPD). The PPD is responsible for policy formulation, strategic planning and evaluation of programmes carried out by the Agriculture, Livestock, Forestry and Food sub-sectors which are concerned primarily with the implementation of policy, the monitoring of projects and provision of technical services.

1. CENTRE FOR AGRICULTURAL RESEARCH AND DEVELOPMENT (CARD)

Wangdiphodrang, Bhutan.

Tel : 209

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2. 1982

3.

4. Director

5. Cereal Research (Rice and Wheat)

Oilcrops Research (Mustard and others)

Vegetable Research (Rice based)

On-farm Research (rice, wheat, oil crops and others)

Seed Maintenance and Production.

6.

7. Books 264

Current Periodicals 963

8. CARD Annual Report

9. Scientists 5

Technicians 6

10. Nu 2 million

1. KHANGMA RESEARCH CENTRE

Kanglung, P.O. Tashigang Dzongkhag, Bhutan

2. 1987

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4. Assistant Research Officer

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7.

8. Research report and technical manual for East Bhutan will be produced shortly.

9. Scientists 3

Technicians 4

10. Nu 0.177 million (1989-90)

INDIA

Selected Indicators of Agricultural Development

Country	: INDIA
Total Area	: 297,319,000 Ha
Forest Coverage (%)	: 22%
Annual Average Change (%) (For 1980-89)	: -0.1%
Cultivated Area	: 169,015,000 Ha
Population	: 883,473,000
Annual Growth Rate of Population	: 2.1%
Agricultural Population	: 63%
Illiteracy Rate	: 52%
National GNP	: 271,638 million US \$
GNP Per Capita	: 310 US \$
Real Growth Rate (per capita)	: 3.3%
Share of Agriculture in GDP	: 32%
Growth Rate of Agricultural Production	:
Agricultural Export as % of Total Export	: 16%
Major Agricultural Commodities	: Rice, Sugarcane, Wheat, Pulses Cotten, Fruits, Vegetables, Buffalo Milk, Cow Milk,
Major Agricultural Imports	: Palm Oil, Dry Beans, Rice, Soybean Oil
Major Agricultural Exports	: Tea, Shell Fish, Green Coffee

Selected Indicators of Agriculture Research

State of Agriculture and Research

India is a country of sub- continental proportions and global range of agro-climatic situations. Along its north-south axis the temperatures range from tropical hot in the south to freezing cold in the north above the permanent snowline in the high Himalayas. Along its east-west axis the rainfall ranges from about 120 mm in the dry desert in the west to about 12,000 mm at Cheerapunjee, Meghalaya in the north-eastern part of the country. With such a mosaic of agro-ecological diversity, the country has adopted the strategy of agro-climatic regional planning for agricultural research as also for agricultural development. For agroclimatic planning of agricultural research the geographic area falling under the jurisdiction of each state agricultural university has been delineated, after a comprehensive research review, into a contiguous set of agroclimatic zones and a multi-disciplinary zonal research stations established in each zone to strengthen the zonal research capacity of the respective agricultural universities to plan and undertake production-oriented, problem-solving research to develop appropriate production technologies and make them available for dissemination to the farmers within the service zone of the research station.

This task was accomplished under a 5-yr (1979-94), US\$175 million National Agricultural Research Project under which a total of 132 such zones were identified ; requisite technical assistance and funding was provided to the SAU's by the ICAR with loan assistance from the IBRD and a multidisciplinary Zonal Research Station along with some sub-zonal /special purpose research stations established in each zone. A total of 343 research stations have been established /strengthened under this massive project tremendously strengthening the capacity of all the SAUs to provide effective technological backup to agricultural production throughout their respective area of responsibility. The ICAR-SAU system together employs about 30,000 scientists.

For the purpose of agroclimatic regional planning of agricultural development, the Planning Commission, in 1988 initiated the Agroclimatic Regional Planning Project aimed at fuller exploitation of the natural and

man-made resources of the country for growth and diversification of her agriculture. The project takes a holistic view of the climate, soils, topography, water resources and irrigation facilities and relates them to requirements of agricultural output and employment.

Under this project the country has been delineated into 15 agroclimatic regiones on the basis of a commonality of agro-climatic factors. A farming systems approach at the disaggregated level rather than the traditional crop production approach has been attempted. An overall development profile of each climatic zone has been formulated through an optimal mix of land stock management, crop production, animal husbandry, aquaculture, horticulture, forestry and agro-processing activities. The 15 agro-climatic zones are as below:

1. Western Himalayas
2. Eastern Himalayas
3. Lower Gangetic Plains
4. Middle Gangetic Plains
5. Upper Gangetic Plains
6. Trans-Gangetic Plains
7. Eastern Plateau and Hills
8. Central Plateau and Hills
9. Western Plateau and Hills
10. Southern Plateau and Hills
11. East Coast Plains and Hills
12. West Coast Plains and Ghats
13. Gujarat Plains and Hills
14. Western Dry Region
15. Islands

The criteria adopted for this delineation were homogeneity in agro-climatic characteristics on the one hand and convenience of planning and operationalisation with reference to the geographical area covered on the other hand. Within each agro-climatic region a number of sub-regions have also been delineated for the purpose of detailed operational planning on the basis of soils, topography, climate and water resources.

This system of sub-regions closely corresponds to the system of agro-climatic zones earlier developed by the Indian Council of Agricultural Research (ICAR) under the National Agricultural Research Project for the establishment of agroclimatic zonal Research Stations.

The hill regions of western and eastern Himalayas have much diversity. The valleys receive good rainfall and have rich soils while the temperate areas of Ladakh in western Himalayas with very low rainfall and the Sikkim-Darjeeling area in eastern Himalayas with high rainfall are both constrained by climatic barriers of limited crop growing period. High soil erosion reduces soil fertility. The level and the intensity of the use of natural resources and its impact on income and employment generation varies between the regions.

The Gangetic plains have relatively abundant natural resources in terms of soils, water and rainfall. The lower and middle Gangetic plains are characterised by high rainfall, alluvial and deltaic soils and good ground water whereas the upper and trans-Gangetic plains have rich alluvial soil, medium to low rainfall and good availability of groundwater.

The plateau and hills region are characterised by comparatively poor soils, high slopes and high run-offs. While the eastern portion has high assured rainfall the remaining areas have only medium rainfall - around 900mm per year.

The coastal plains and hills region have large variations of soil and rainfall. The east coast plains and hills have moderately high rainfall, comparatively heavy soils of high moisture retentive capacity and deltaic formations characterised by inadequate drainage, water-logging and flooding during the monsoons. Groundwater availability is good but exploitation is low. Salinity and alkalinity are also present. The west coast plains and ghat region is also characterised by high rainfall and a warm humid climate. Coastal alluvial, laterites and red soils are predominant. Some inundation by seawater occurs.

The Gujarat plains and hills region is arid and semi-arid with average

rainfall of 836 mm per year but ranging from 340 mm in the western arid area to 1793 mm in the south east. A large area is drought prone. Soil-wise nearly 50% area is covered under alluvial plains and the remaining area under residual or shallow alluvial soils on the plateaus and hills. Exploitation of groundwater is high.

The western dry region receives highly erratic and uncertain rainfall of 395 mm. Groundwater is scarce and saline. The soils are desert soil type having low moisture retention capacity. The area is covered by sandy to loamy-sand soils occurring in the forms of sand dunes, parabolic dunes etc and are primarily infertile.

The islands region is a typical equatorial climatic region with annual rainfall of 3086 mm. Because of equatorial nature nearly 90% area is under forest. The soils are loamy and rich. Together with the Himalayan region this region also has serious sustainability problems.

The institutional framework of the Indian agricultural research (excluding forestry) system comprises the ICAR as the apex body, its 44 Central Research Institutes, 20 National Research Centres, 4 National Bureaus, 9 Project Directorates, a National Academy of Agricultural Research Management, 1 Central Agricultural University established to serve 6 small states in the north-eastern part of the country, 27 State Agricultural Universities, agricultural faculties of a few general universities and a few research institutions occurring outside the ICAR-SAU system. All these institutions have their specific research mandates and research agendas. The Central Research Institutes, the National Bureaus, the Project Directorates and the NRC's have a national orientation and focus on strategic research, the SAUs are responsible for providing location specific technological support to agricultural production throughout the area of their research jurisdiction which is whole or a part of the territory of the concerned state but relevant depending on whether there is one or more than one SAU in the state for the purpose of defining the technological mandate of the SAU agriculture includes all kinds of primary biological production from land, inland water bodies and coastal water bodies

Groups of institutions of the national agricultural research system are also functionally linked together into special purpose/commodity oriented cooperative research networks through 66 All India Coordinated Research Projects (AICRPs) organised by the ICAR. Each such network consists of a Coordinating Unit fully funded by the ICAR and a number of research centres established at the various cooperating institutions. The cost of establishing and operating the research centres is shared by the ICAR and the cooperating institutions on a 75:25 basis. The 66 AICRPs presently operate nation-wide through 1,291 centres. The AICRPs ensure complementarity in the research programmes of cooperating research institutions and provide for joint development and evaluation of new technologies through multilocation testing.

Forestry research falls under the jurisdiction of the Ministry of Forests and Environment. The ministry has constituted the Indian Council of Forestry Research and Education (ICFRE) which has jurisdiction over 8 research institutes and a research centre. One of these research institutes - the Forest Research Institute, Dehra Dun, has been granted a deemed-to-be a university status empowering it to grant postgraduate degrees in the area of its research specialization. The Ministry of Forests and Environment also directly controls a few research institutions. A number of State Agricultural Universities that have started forestry/agroforestry degree programmes are actively engaged in forestry/agroforestry research. Prominent among such SAUs are Dr Y S Parmar University of Horticulture and Forestry Solan; Tamilnadu Agricultural University, Coimbatore; and Birsa Agricultural University, Ranchi. Some State Forestry Departments also have established research institutions; prominent among them is the Kerala Forestry Research Institute, Peechi.

1. INDIAN COUNCIL OF AGRICULTURAL RESEARCH (ICAR)

Krishi Bhavan, New Delhi, 110001. India

Tel : (011) 388991

Telex : 031-62249 ICAR IN

Cable : AGRISEC, NEW DELHI

Fax : 91-11-387293

2. 1929
3. Autonomous body funded by the Department of Agricultural Research and Education (DARE), Ministry of Agriculture, Government of India.
4. Director General - Dr R.S. Paroda
5. Administration and Coordination
 - Crop Sciences
 - Horticulture
 - Agricultural Engineering
 - Soil Agronomy and Agro-Forestry
 - Animal Sciences
 - Fisheries
 - Agricultural Extension
 - Agricultural Education
 - Publication and Information
6. None
7. Books 40,000
Current Periodicals 525
8. Indian Journal Of Agricultural Sciences
Indian Journal of Animal Sciences
Indian Journal Fisheries
Indian Journal of Agricultural Engineering
Indian Farming
Indian Horticulture
Annual Report of ICAR/DARE
Kheti (Hindi); Phal Phool (Hindi); Krishi Chayanika (Hindi)
Annual Report (Hindi)
9. Scientists 102 (at Headquarters); 11,881 (Total)
Technicians 140 (at Headquarters); 13,848 (Total)
10. Rs 3499.10 million (1990-91)

1. INDIAN AGRICULTURAL RESEARCH INSTITUTE (IARI)

New Delhi 110012 , India .
Tel : 011 - 5754595
Cable : KRISHIPUSA, NEW DELHI
Telex : 031 - 77161 IARI IN .
Fax : 91-11-5752006

2. 1905
3. Director - Prof R.B. Singh
4. Semi-autonomous body
under the Indian Council of Agricultural Research (ICAR)
5. Divisions of;
 - Biotechnology
 - Genetics
 - Vegetable Crops
 - Fruits and Horticulture Technology
 - Floriculture and Landscaping
 - Seed Science and Technology
 - Agronomy
 - Soil Science and Agricultural Chemistry
 - Microbiology
 - Agricultural Physics
 - Agricultural Engineering
 - Mycology and Plant Pathology
 - Entomology
 - Nematology
 - Agricultural Chemicals
 - Plant Physiology
 - Biochemistry
 - Agricultural Economics
 - Agricultural Extension
 - Animal Improvement
 - Nuclear Research Laboratory

- Water Technology Centre
- Bio-Informatics Centre
- 6. M.Sc. and Ph.D. in Agricultural Economics
 - Agricultural Engineering
 - Agricultural Extension
 - Agricultural Physics
 - Agricultural Statistics
 - Agricultural Chemicals
 - Agronomy
 - Biochemistry
 - Entomology
 - Genetics
 - Horticulture
 - Microbiology
 - Mycology and Plant Pathology
 - Nematology
 - Plant Physiology
 - Molecular Biology and Biotechnology
 - Soil Science and Agricultural Chemistry
 - M.Sc. in Computer Applications in Agriculture
- 7. Books 200000
- Current Periodicals 510
- 8. Annual Report
- 9. Scientists 809
- Technicians 1053
- 10. Rs. 222.50 million (1990-91)

1. **INDIAN INSTITUTE OF HORTICULTURAL RESEARCH (IIHR)**

255 , Upper Palace Orchards ,
 Bangalore 560080 , India
 Tel : (0812) 342486/ 340194/ 344576/ 394356
 Telex : 0845-2534 IIHR IN
 Fax : 91-80-345147
 Cable : HORTSEARCH, BANGALORE

- 2. 1967
- 3. Institute under the ICAR
- 4. Director - Dr R.M. Pande
- 5. Fruit Crops
 - Vegetable Crops
 - Ornamental Crops
 - Medicinal and Aromatic Crops
 - Post-Harvest Technology
 - Plant Pathology
 - Entomology and Nematology
 - Plant Physiology and Biochemistry
 - Soil Science
 - Plant Genetic Resources
 - Economics and Statistics
 - Extension and Education
 - Horticultural Engineering
- 6. M.Sc. and Ph.D. in Horticulture (degrees are however, awarded by the University of Agricultural Sciences, Bangalore in collaboration with the Institute)
- 7. Books 6065
- Current periodicals 258
- 8. IIHR Newsletter
 - Latest Additions Publication
 - IIHR Annual Report
 - Rapid Information Services
 - Current Literature on Horticultural Sciences
- 9. Scientists 239
- Technicians 246
- 10. Rs. 17.28 million (1990-91)

1. **CENTRAL AVIAN RESEARCH INSTITUTE (CARI)**
 Izatnagar 243122 Bareilly ,Utter Pradesh , India
 Tel : (0581) 74230/ 74035/ 74332/ 76095
 Telex : 0577 - 206 CARI IN .
 Cable : POULTRY, IZATNAGAR
 Fax : 91-581-76239
2. 1979
3. Institute under the ICAR
4. Director - Dr J.N.Panda
5. Avian Genetics and Breeding
 Avian Nutrition and Feed Technology
 Avian Physiology and Reproduction
 Post-Harvest Technology Planning, Monitoring and Coordination Technology Transfer
 Poultry Housing and Management
 Avian Medicine
 Postgraduate Education and Training
 Advanced Centre for Research on Quails
6. M.Sc.(Poultry Science); M.Sc.(Poultry Science); Ph.D.(Poultry Science) in association with the Indian Veterinary Research Institute (IVRI)
7. Books 2549
8. CARI Newsletter
 Indian Journal of Poultry Science
 CARI Annual Report
 CARI Booklet (One issue in 2-3 years)
 Information Leaflets for Farmers
 Research Highlight
9. Scientists 64
 Technicians 60
10. Rs. 13.85 million

1. **INDIAN VETERINARY RESEARCH INSTITUTE (IVRI)**
 Izatnagar, Bareilly 243122, UtterPradesh, India
 Tel : (0581) 74069
 Telex : 0577-205 IVRI IN
 Cable : VETEX, IZATNAGAR
 Fax : 91-581-73691
2. 1889
3. Semi-autonomous body (deemed to be a university) under the ICAR
4. Director - Dr D.S. Balaine
5. Animal Genetics and Breeding
 Animal Gynaecology and Reproduction
 Animal Nutrition
 Animal Physiology
 Avian Diseases
 Biochemistry
 Biostatistics
 Epidemiology
 Extension Education
 Livestock Economics
 Livestock Production and Management
 Livestock Products Technology
 Veterinary Bacteriology
 Veterinary Immunology
 Veterinary Medicine
 Veterinary Parasitology
 Veterinary Pathology
 Veterinary Pharmacology
 Veterinary Public Health
 Veterinary Surgery
 Veterinary Virology
 Biological Products
 Standardization

- Biotechnology
- 6. M.Sc. in;
 - Animal Genetics and Breeding
 - Animal Gynaecology and Obstetrics
 - Animal Nutrition
 - Animal Physiology
 - Animal Science Extension
 - Avian Diseases
 - Biochemistry
 - Bio-Statistics
 - Biotechnology
 - Livestock Production and Management
 - Livestock Economics
 - Livestock Products Technology
 - Poultry Science
 - Veterinary Bacteriology
 - Veterinary Immunology
 - Veterinary Medicine.
- Ph.D. in;
 - Animal Breeding
 - Animal Genetics
 - Animal Gynecology and Obstetrics
 - Animal Nutrition
 - Animal Physiology
 - Animal Reproduction
 - Animal Science Extension
 - Biochemistry
 - Livestock Products Technology
 - Poultry Science
 - Veterinary Parasitology
 - Veterinary Pathology
 - Veterinary Pharmacology
 - Veterinary Surgery
- 7. Books 29560
- 8. IVRI Newsletter
 - University Publication Bulletin
 - Annual Scientific Report
- 9. Scientists 455
 - Technicians 586
- 10. Rs. 140.35 million

- 1. **NATIONAL DAIRY RESEARCH INSTITUTE (NDRI)**
 - Karnal 132001 , Haryana , India
 - Tel : (0184) 4293
 - Telex : 0396-204 NDRI
 - Cable : DAIRYSEARCH, KARNAL
 - Fax : 91-184-20042
- 2. 1955
- 3. Semi-autonomous body under the ICAR

- 4. Director - Dr S.C.Sharma
- 5. Dairy Microbiology
 - Dairy Chemistry
 - Animal Biochemistry
 - Dairy Technology
 - Dairy Engineering
 - Dairy Cattle Genetics
 - Dairy Cattle Nutrition
 - Dairy Cattle Physiology
 - Dairy Economics, Statistics and Management
 - Dairy Extension
- 6. B.Sc. - Dairy Technology
 - M.Sc. - Dairying
 - Dairy Microbiology

Dairy Chemistry
 Dairy Technology
 Dairy Engineering
 Animal Genetics and Breeding
 Animal Nutrition
 Animal Physiology
 Animal Biochemistry
 Dairy Economics
 Dairy Extension
 Livestock Production and Management
 Animal Biotechnology
 Ph.D. - Dairy Microbiology
 Dairy Chemistry
 Dairy Technology
 Dairy Engineering
 Animal Genetics and Breeding
 Animal Nutrition
 Animal Physiology
 Animal Biochemistry
 Dairy Economics
 Dairy Extension

- | | |
|----------------------|-------|
| 7. Books | 52000 |
| Current Periodicals | 500 |
| 8. Annual Report | |
| 9. Scientists | 265 |
| Technicians | 478 |
| 10. Rs 83.50 million | |

1. CENTRAL INSTITUTE FOR COTTON RESEARCH (CICR)

Post Bag No. 125, Nagpur 440001
 Maharashtra, India.
 Tel : (0715) 26323/ 22443
 Telex : 715-267 CICR IN
 Cable : KAPASSANSTHAN, NAGPUR

2. 1976
3. Institute under the ICAR
4. Director - Dr A.K. Basu
5. Crop Improvement
 Crop Production
 Crop Protection
 Plant Physiology and Biochemistry
 Extension.
6. None
7. Books 2500
 Current Periodicals 160
8. CICR Newsletter
 Cotton Research Abstracts
 Annual Report
9. Scientists 88
 Technicians 84
10. Rs 18 million

1. CENTRAL RESEARCH INSTITUTE FOR JUTE AND ALLIED FABRICS (CRIJAF)

Nilgunj, P.O. Barrackpore 743101, 24 Parganas (North),
 West Bengal, India
 Tel : (033) 560415/561120-24
 Telex : 021-4091 JARI IN
 Cable : JUTRESEARCH, BARRACKPORE

2. 1953
3. Institute under the ICAR
4. Director - Dr B.K. Tripathi
5. Plant Breeding and Genetics
 Agronomy
 Extension

Soil Science
Soils and Microbiology
Entomology
Plant Pathology
Statistics
Metereology
Agricultural Engineering
Physiology

6. None
7. Books 7287
Current Periodicals 230
8. Annual Report
9. Scientists 98
Technicians 158
10. Rs 51.74 million (1990-91)

1. CENTRAL RICE RESEARCH INSTITUTE (CRRI)

Cuttack 753006, Orissa.
Tel : (0671) -21887/ PABX 20020
Telex : 0676-220 CRRI IN
Cable : RICE, CUTTACK

2. 1946
3. Institute under the ICAR
4. Director - Dr B. Venkateswarlu
5. Genetic Resource
Plant Breeding and Genetics
Plant Physiology
Biochemistry
Agronomy
Soil Science
Microbiology
Plant Pathology
Entomology
Agricultural Engineering
Communication and Training
Economics and Statistics
6. CRRI provides facilities for Ph.D thesis research to students registered in other universities.
7. Books 7100
Current Periodicals 140.
8. Oryza
Annual Report
9. Scientists 221
Technicians 196
10. Rs 27.05 million

1. CENTRAL TOBACCO RESEARCH INSTITUTE (CTRI)

Rajamundhry 533105, Andhra Pradesh.
Tel : (0883) 75995
Telex : 0474-205 CTRI IN
Cable : TABSEARCH, RAJAMUNDHRY

2. 1947
3. Institute under the ICAR
4. Director - Dr M.S. Chari
5. Agronomy
Chemistry
Genetics and Plant Breeding
Plant Protection
6. None
7. Books 10764
Current Periodicals 171
8. CTRI Newsletter
Annual Report
9. Scientists 85

Technicians 169

10. Rs 26.06 million

1. DIRECTORATE OF OILSEEDS RESEARCH (DOR)

Rajendranagar, Hyderabad 500030 Andhra Pradesh, India.

Tel : (040) 245222/ 245331

Telex : 0425-6856 DOR IN

Cable : SODHTELHAN, HYDERABAD

Fax : 91-40-245222 (inland)

91-842-245222 (international)

2. 1977

3. Institution under the ICAR

4. Director - Dr M.V.R. Prasad

5. National Communication and Training Centre

Plant Breeding

Plant Protection

Agricultural Chemistry

Statistics and Economics

6. None

7. Books 1500

Current Periodicals 100

8. Annual Reports of Kharif and Rabi Oilseeds.

9. Scientists 46

Technicians 43

10. Rs 11.36 million

1. INDIAN INSTITUTE OF PULSES RESEARCH (IIPR)

Kalyanpur, Kanpur 208024, India

Tel : (0512) 250264

Cable : DALHANSHODH, KANPUR

Fax : 91 - 512 - 250264

2. 1984

3. Institute under the ICAR

4. Director - Dr Shankar Lal

5. Plant Breeding

Agronomy

Plant Pathology

Entomology

Plant Physiology

Agricultural Chemistry

Economics and Statistics

Extension and Training

Agricultural Engineering

6. None

7. Books 1595

Current Periodicals 70

8. Indian Journal of Pulses Research and Development

Pulses Research Newsletter

Annual report

Bulletins

9. Scientists 57

Technicians 61

10. Rs 21.14 million

1. INDIAN INSTITUTE OF SUGARCANE RESEARCH (IISR)

Rae Bareilly Road, P.O. Dilkusha, Lucknow 226002

Uttar Pradesh, India.

Tel : (0522) 52572

Telex : 0535 - 2309 IISR IN

Fax : 91 - 522 - 52073

Cable : GANNAANUSANDHAN, LUCKNOW

2. 1952

3. Institute under the ICAR

4. Director - Dr G.B.Singh

5. Agronomy, Extension, Economics and Statistics
 - Entomology, Crop Improvement
 - Plant Pathology and Mycology
 - Crop Physiology and Biochemistry
 - Soil Science and Agricultural Chemistry
 - Agricultural Engineering
 6. None
 7. Books 7983
Current Periodicals 220.
 8. Indian Journal of Sugarcane Technology
Annual Report
Technical Bulletin
 9. Scientists 98
Technicians 122
 10. Rs 16.55 million
-
1. **NATIONAL BUREAU OF PLANT GENETIC RESOURCES (NBPGR)**
Pusa Campus, IARI, New Delhi 110012, India
Tel : (011) 5786908
Telex : 031 - 77257 NBGR IN
Cable : GERMPLASM, NEW DELHI
 2. 1976
 3. Institution under the ICAR
 4. Director - Dr R.S. Rana
 5. Plant Exploration and Collection
Germplasm Exchange
Plant Quarantine
Germplasm Evaluation
Germplasm Conservation
Tissue Culture Repository
 6. None
 7. Books 7615
 8. Indian Journal of Plant Genetic Resources
Research Highlight
NBPGR Newsletter
Annual Report
 9. Scientists 146
Technicians 120
 10. Rs 24.9 million
-
1. **NATIONAL CENTER FOR INTEGRATED PEST MANAGEMENT (NCIPM)**
646, Sector 21 A, Badhkal Road, Faridabad 121001, India
Tel : (011) 8 - 214438)
Telex :
Cable : INTEGPEST, FARIDABAD
 2. 1988
 3. Institution under the ICAR
 4. Director - Dr T.P. Sriharan
 5. Entomology
Plant Pathology
 6. None
 7. Books 1200
 8. IPM Newsletter
 9. Scientists 29
Technicians 15
 10. Rs 6.10 million
-
1. **NATIONAL RESEARCH CENTRE FOR GROUNDNUT (NRCG)**
Timbawadi, Junagadh 362015, Gujarat, India.
Tel : (0285) 21550
Telex : 0164-220 NRCG IN
Cable : GNUMSEARCH, JUNAGADH
 2. 1979
 3. Institution under the ICAR

4. Director - Dr P.S. Reddy
5. Genetic Resources
 - Cytogenetics
 - Plant Breeding
 - Entomology
 - Plant Pathology
 - Agronomy
 - Plant Physiology
 - Microbiology
 - Biochemistry
6. None
7. Books 902
 - Current Periodicals 122
8. Groundnut News
9. Scientists 34
 - Technicians 41
10. Rs 8 million

1. **NATIONAL RESEARCH CENTRE FOR PLANT BIOTECHNOLOGY (NRCPB)**
 - Pusa Campus, IARI, New Delhi 110012, India
 - Tel : (011) 5788783
 - Telex : 031 - 77161 IARI IN
 - Cable : BIOTECH KRISHPUSA, NEW DELHI
 - Fax : 91 - 11 - 5740722
2. Year of Establishment : 1985
3. Status : Centre under the IARI
4. Head : Director - Dr R.P. Sharma
5. Principal Units :
6. Degrees Offered : M.Sc; Ph.D (offered by the IARI)
7. Library : Using IARI Library
8. Publications :
9. Manpower : Scientists 37
 - Technicians 23
10. Budget : Rs 9 million

1. **NATIONAL RESEARCH CENTRE FOR SORGHUM (NRCS)**
 - Rajendranagar, Hyderabad 500030, India
 - Tel : (0842) 245349
 - Telex : 0425-6578 NRCS IN
 - Cable : SORGHUM, HYDERABAD
2. 1987
3. Institution under the ICAR
4. Director - Dr U.R. Murty
5. Crop Science
 - Plant Protection
 - Soil Science
 - Agronomy and Agricultural Engineering
 - Biotechnology
 - Agricultural Economics
 - Statistics
 - Extension Education
6. None
7. Books 295
 - Current Periodicals 17
8. Bulletins
 - Pamphlets
9. Scientists 35
 - Technicians 42
10. Rs 11.3 million

1. **NATIONAL RESEARCH CENTRE FOR SOYABEAN (NRCS)**
 - Khandwa Road, Indore 452001, Madhya Pradesh, India
 - Tel : (0731) 65653

- Cable : SOYSEARCH, INDORE
2. 1987
 3. Institution under the ICAR
 4. Director - Dr P.S. Bhatnagar
 - 5.
 6. None
 7. Books 455
Current periodicals 21
 8. Annual Reports of NRCS and AICRP on Soyabean
Technology for Increasing Soybean in India
Soybean Varieties of India
Technical Bulletin.
 9. Scientists 21
Technicians 22
 10. Rs 40 million
1. **NATIONAL RESEARCH CENTRE FOR WEED SCIENCE (NRCWS)**
135, Ravindra Nagar, Adhartal, Jabalpur 482004
Madhya Pradesh, India
Tel : (0761) 23939
Cable : WEED SCIENCE, JABALPUR
 2. 1989
 3. Institution under the ICAR
 4. Director - Dr V.M. Bhan
 5. Agronomy
Plant Physiology
Biochemistry and Microbiology
Residue Chemistry
Botany and Ecology
Agricultural Engineering
Agricultural Economics and Statistics
 6. None
 - 7.
 - 8.
 9. Scientists 27
Technicians 27
 10. Rs 1.2 million
1. **SUGARCANE BREEDING INSTITUTE (SBI)**
Coimbatore 641007, Tamil Nadu, India
Tel : (0422) 40986
Telex : 0835 - 383 SBI IN
Cable : GANNAPRAJANAN, COIMBATORE
Fax : 91 - 422 - 25800
 2. 1912
 3. Institute under the ICAR
 4. Director - Dr K.M. Naidu
 5. Crop Improvement
Crop Protection
Crop Production
Extension
 6. Provides thesis research facilities for M.Sc, Ph.D. degree
students of the Tamil Nadu Agricultural University
 7. Books 5098
Current Periodicals 170
 8. SBI Newsletter
Annual Report
Research Highlight
 9. Scientists 78
Technicians 83
 10. Rs 16.9 million

1. **VIVEKANANDA PARVATIYA KRISHI ANUSANDHAN SHALA (VPKAS)**

Almora 263601, Uttar Pradesh, India

Tel : (05962) 2208

Cable : VILAB, ALMORA

2. 1974

3. Institute under the ICAR

4. Director - Dr K.D. Koranne

5. Crop Improvement

Plant Breeding

Cytogenetics

Plant Physiology

Economic Botany

Crop Production

Soil Science

Agricultural Engineering

Agronomy

Agricultural Chemistry

Water Management

Crop Protection

Plant Pathology

Entomology

Social Sciences

Agricultural Economics

Agricultural Statistics

Agricultural Extension.

6. None

7. Books 1882

Current Periodicals 102

8. Scientists 57

Technicians 37

9. N.A

10. N.A

1. **WHEAT PROJECT DIRECTORATE (WPD)**

Karnal 132001, Haryana, India.

Tel : (0184) 22390

Cable : WHEAT, karnal

2. 1975

3. Institution under the ICAR

4. Director - Dr J.P. Tandon

5. Breeding

Agronomy

Pathology

6. None

7.

8. Annual Report

9. Scientists 34

Technicians 40

10. Rs 3.16 million

1. **CENTRAL INSTITUTE OF HORTICULTURE FOR NORTHERN PLAINS (CIHNP)**

B-217, Indira Nagar, Lucknow 226016, Uttar Pradesh, India

Tel : (0522) 381196/ 382676

Telex : 0535 - 2359 AAM IN

Cable : MANGOSEARCH, LUCKNOW

2. 1984

3. Institute under the ICAR

4. Director - Dr S.S. Negi

5. Horticulture

Entomology

Pathology

Soil Science, Agronomy and Microbiology

Post Harvest Technology

Physiology and Biochemistry
Economics and Statistics
Engineering
Technical Cell
Photo and Art

6. None
7. Books 1724
Current Periodicals 80
8. Annual Report
9. Scientists 48
Technicians 41
10. Rs 8.42 million

1. **CENTRAL PLANTATION CROPS RESEARCH INSTITUTE (CPCRI)**

Kasargod 670124, Kerala, India
Tel : (04995) 20094/ 20067/ 20320
Telex : 0800-1202 PALM IN
Cable : RESEARCH, KASARGOD
Fax : 91 - 4995 - 23300

2. 1970
3. Institute under the ICAR
4. Director - Dr M.K. Nair
5. Agronomy
Agricultural Economics and Statistics
Agricultural Extension
Biotechnology
Entomology
Genetics
Microbiology
Nematology
Physiology and Biochemistry
Plant Pathology
Soil Science
Statistics
6. The Institute provides thesis research facilities for M.Phil and Ph.D degree students registered at other universities.
7. Books 9018
Current Periodicals 225
8. CPCRI Newsletter
Annual Report
Research Highlight
Technical Bulletin
9. Scientists 135
Technicians 151
10. Rs 37.82 million

1. **CENTRAL POTATO RESEARCH INSTITUTE (CPRI)**

Shimla 171001, Himachal Pradesh, India
Tel : (0177) 3118/ 5170/ 78087/ 5545/ 7875/ 6858
Telex : 0391-240 CPRI IN
Cable : POTATOSEARCH, SHIMLA

2. 1949
3. Institute under the ICAR
4. Director - Dr J.S. Grewal
5. Agronomy and Soil Science
Plant Pathology
Genetics
Entomology and Nematology
Crop Physiology and Biochemistry
Seed Production
Social Sciences.
6. None
7. Books 31834
Current Periodicals 588

8. The Annual Scientific Research Highlight Annual Report
9. Scientists 180
Technicians 205
10. Rs 36.87 million.

1. **CENTRAL TUBER CROPS RESEARCH INSTITUTE (CTCRI)**
Sreekariyam, P.O.Trivandrum 695017, Kerala, India
Tel : (0471) 448431/ 448551-4
Telex : 0435-247 ROOT IN
Cable : TUBERSEARCH, TRIVANDRUM
Fax : 91 - 471 -448431
2. 1963
3. Institute under the ICAR
4. Director - Dr N.M. Nayar
5. Genetics and Plant Breeding
Agronomy and Soil Science
Plant Physiology and Biochemistry
Plant Pathology
Post-Harvest Technology
Entomology
Economics, Statistics and Extension
6. None
7. Books 10757
Current periodicals 112
8. Newsletter
Annual Report
9. Scientists 70
Technicians 39
10. Rs 13.20 million

1. **NATIONAL CENTRE FOR MUSHROOM RESEARCH AND TRAINING (NCMRT)**
Chambaghat, Solan, Himachal Pradesh, India
Tel : (01792) 2851/ 3767
Cable : MUSHROOMSEARCH, SOLAN
2. 1983
3. Institution under the ICAR
4. Director - Dr S.R. Sharma
5. Mycology and Plant Pathology
Biochemistry and Physiology
6. None
7. Books 410
Current Periodicals 140
8. Annual Report
9. Scientists 17
Technicians 4
10. Rs 1.5 million

1. **NATIONAL RESEARCH CENTRE FOR CASHEW (NRCC)**
Darbe, Puttur 574202, Dakshina Kannada
Karnataka, India
Tel : 6902
Cable : CAJUKENDRA, PUTTUR
2. 1986
3. Institution under the ICAR
4. Director - Dr E.V.V. Rao
5. Agronomy
Biochemistry
Entomology
Horticulture
Plant Breeding and Genetics
Statistics
6. None

- 7. Books 480
- Current Periodicals 39
- 8. Annual Report
- 9. Scientists 21
- Technicians 14
- 10. Rs 6.6 million

- 1. **NATIONAL RESEARCH CENTRE FOR CITRUS (NRCC)**
Seminary Hills, Nagpur 440006, Maharashtra, India
Tel : (0712) 334186
Telex : 0715-548 INRCC IN
Cable : CITRUSEARCH, NAGPUR

- 2. 1985
- 3. Institution under the ICAR
- 4. Director - Dr H.C. Das
- 5.
- 6.
- 7. Books 84
- Current Periodicals 33
- 8. Annual Report
- 9. Scientists 20
- Technicians 13
- 10. Rs 7.67 million

- 1. **NATIONAL RESEARCH CENTRE FOR SPICES (NRCS)**
Post Box 1701, Marikunnu, Calicut 12, Kerala, India
Tel : (0495) 50294/ 52410
Telex : 0804-250 NRCS IN
Cable : RESEARCH, CALICUT
Fax : 91 -495 -50294

- 2. 1975
- 3. Institution under the ICAR
- 4. Director - Dr A. Ramadasan
- 5. Genetics and Plant Breeding
Horticulture
Agronomy
Soil Science
Plant Pathology
Entomology
Nemotology
Plant Physiology
Biochemistry
Agricultural Statistics
Extension
- 6. None
- 7. Books 2725
- Current Periodicals 126
- 8. Annual Report
- 9. Scientists 41
- Technicians 28
- 10. Rs 8.40 million

- 1. **PROJECT DIRECTORATE OF VEGETABLE RESEARCH (PDVR)**
Varanasi 221001, Uttar Pradesh, India
Tel : (0542) 313904
Fax : 91 - 542 - 313904

- 2. 1971
- 3. Institution under the ICAR
- 4. Director - Dr G. Kalloo
- 5.
- 6. None
- 7.
- 8. Technical Bulletin
Annual Report

- 9. Scientists 19
Technicians 8
- 10. Rs 3 million

1. **CENTRAL AGRICULTURAL RESEARCH INSTITUTE (CARI)**
Port Blair 744101, Andaman and Nicobar Islands, India
Tel : (03192) 21276/ 85236/ 85234
Telex : 0695-211 CARI IN
Cable : KRISHIKENDRA, PORT BLAIR
Fax : 91 - 3192 - 21281

- 2. 1978
- 3. Institute under the ICAR
- 4. Director - Dr A.K. Bandopadhyay
- 5. Crop Improvement
 - Agronomy
 - Soils and Agro Forestry
 - Plant Pathology and Entomology
 - Agricultural Engineering and Post Harvest Technology
 - Horticulture and Plantation Crops
 - Animal Science
 - Fishery Science
 - Agricultural Extension
 - Economics and Sociology
- 6. None
- 7. Books 2777
Current Periodicals 210
- 8. Annual Report
Research Highlight
- 9. Scientists 60
Technicians 47
- 10. Rs 18.71 million

1. **CENTRAL ARID ZONE RESEARCH INSTITUTE (CAZRI)**
Light Industrial Area, Jodhpur, Rajasthan, India
Tel : (0291) 40584
Telex : 0552-218 CAZRI IN
Cable : SHUSKHETRA, JODHPUR

- 2. 1959
- 3. Institute under the ICAR
- 4. Director - Dr J. Venkateswarlu
- 5. Resource Survey and Monitoring
 - Resource Management
 - Arable Cropping Systems
 - Perennial Cropping Systems
 - Animal Sciences and Rodent Control
 - Energy Management
 - Engineering and Product Processing
 - Social and Information Science
 - Outreach Programme/Transfer of Technology
- 6. None
- 7. Books 15639
Current Periodicals 250
- 8. Annual Report
- 9. Scientists 191
Technicians 283
- 10. Rs 40 million

1. **CENTRAL RESEARCH INSTITUTE FOR DRYLAND AGRICULTURE (CRIDA)**
Santoshnagar, Saidabad, P.O. Hyderabad 500659
Andhra Pradesh, India
Tel : (040) 239177
Telex : 0425-6252 DARP IN
Cable : DRYLAND, HYDERABAD

- 2. 1985

3. Institute under the ICAR
4. Director - Dr J.C.Katyal
5. Crop Sciences
Resource Management
Design and Analysis
Transfer of Technology
Coordinating unit for AICRP on Dryland Agriculture and
AICRP on Agro-Meteorology.
6. None
7. Books 4420
Current periodicals 58
8. Annual Report
9. Scientists 62
Technicians 108
10. Rs 14.37 million

1. CENTRAL SOIL AND WATER CONSERVATION RESEARCH AND TRAINING INSTITUTE (CSWCRTI)

218, Kaulagarh Road, Dehra Dun , Uttar Pradesh, India
Tel : 0135-24213/ 23385/
Telex : 0585-237 SCRI IN
Cable : SOILCONS, DEHRA DUN

2. 1954
3. Institute under the ICAR
4. Director - Dr M.S.Rama Mohan Rao
5. Land and Water
Plant Science
Hydrology and Engineering Rainfed Agriculture and Water Management
Economics and Statistics
Extension and ORP
Training
- 6.
7. Books 5960
Current Periodicals 160
8. Newsletter
Research Highlights
Annual Report
Technical Bulletin
9. Scientists 149
Technicians 247
10. Rs 31.01 million

1. CENTRAL SOIL SALINITY RESEARCH INSTITUTE (CSSRI)

Karnal 132001, Haryana, India
Tel : (0184) 20801/ 25910/ 23218
Telex : 0396-218 SSRI IN
Cable : SALINITY, KARNAL

2. 1069
3. Institute under the ICAR
4. Director - Dr R.N. Tyagi
5. Soils and Agronomy
Genetics and Plant Physiology
Agricultural Engineering
Agricultural Economics
Agricultural Extension
6. None
7. Books 11869
Current Periodicals 205
8. Technical Bulletins
Extension Publications
Annual Report
9. Scientists 91
Technicians 107
10. Rs 17.75 million

1. **PROJECT DIRECTORATE FOR CROPPING SYSTEMS RESEARCH (DCSR)**
 Modipuram, Meerut 250110, Uttar Pradesh, India
 Tel : (0121) 75718/ 74905
 Telex : 0594-258 DCSR IN
 Cable : AGRISYSTEM, MEERUT
2. 1989
3. Institution under the ICAR
4. Director - Dr S.K. Sharma (officiating)
5. System Diagnosis
 Design and Evaluation
 System Management
 Network and Training
6. None
7. Books 3000
 Current periodicals 85
8. Farming Systems Newsletter
9. Scientists 17
 Technicians 22
10. Annual Budget. Rs 45 million

1. **ICAR RESEARCH COMPLEX FOR GOA (ICARRCG)**
 Velha, Old Goa 403402, Goa, India
 Tel : (0832) 81, Corlim Exchange, Goa, India
 Telex : 0194-329 CASE IN
 Cable : RESEARCH, VELHA OLD GOA
 Fax : 91-832-86249
2. 1982
3. Institution under the ICAR
4. Director - Dr D.G. Dhandar
5. Crop Sciences
 Horticulture
 Animal Sciences
 Fishery Science
 Farm Science Centre
6. None
7. Books 667
 Current periodicals 51
8. Annual Report
9. Scientists 21
 Technicians 25
10. Rs 6.9 million

1. **ICAR RESEARCH COMPLEX FOR NEH REAGION (ICARNEHR)**
 Umroi Road, Barapani 793103, Meghalaya, India
 Tel : (0364) 73302/ 73257
 Telex : 0237-214 NERC IN
 Cable : AGRICOMPLEX, BARAPANI
2. 1975
3. Institution under the ICAR
4. Director Dr R.N. Prasad
5. Plant Breeding
 Horticulture
 Agronomy
 Water Management
 Soil Science
 Entomology
 Plant Pathology
 Agricultural Engineering
 Agricultural Extension
 Agroforestry
 Agricultural Economics
 Animal Production
 Animal Nutrition

Animal Health
Veterinary Parasitology
Fisheries.

6. None
7. Books 8500
Current Periodicals 250
8. Newsletter
Annual Report
9. Scientists 251
Technicians 326
10. Rs 44.08 million

1. **INDIAN GRASSLAND AND FODDER RESEARCH INSTITUTE (IGFRI)**

Jhansi 284003, Uttar Pradesh, India

Tel : (0571) 833

Telex : 0326-241 GFIR IN

Cable : GHASANUSANDHAN, JHANSI

Fax : 91-517-440833

2. 1962
3. Institute under the ICAR
4. Director - Dr R.P. Singh (officiating)
5. Plant Improvement
Agronomy
Plant Physiology and Biochemistry
Plant Protection
Soil Science
Plant Animal Relationship
Grass and Management
Agro Silviculture
Seed Technology
Agricultural Engineering
Rural Economics and Biometrics
Extension and Training
6. None
7. Books 6210
Current Periodicals 200
8. Annual Report
9. Scientists 96
Technicians 136
10. Rs 19.27 million

1. **INDIAN INSTITUTE OF SOIL SCIENCE (IISS)**

Z-6, Zone 1, Maharana Pratap Nagar, Bhopal 462011, India

Tel : (0755) 553787/ 553770/ 553546

Cable : SOILINST, BHOPAL

Fax : 91 - 755 - 553546

2. 1988
3. Institute under the ICAR
4. Director - Dr P.N. Takkar
5. Soil Physics
Soil Microbiology
Soil Chemistry
Coordinating unit for AICRP on Micronutrients
6. None
7. Books 513
Current Periodicals 30
8. Annual Report
9. Scientists 29
Technicians 21
10. Rs 16.5 million

1. **NATIONAL BUREAU OF SOIL SURVEY AND LAND USE PLANNING (NBSSLUP)**

Amravati Road, Nagpur 440010, Maharashtra, India

Tel : (0712) 532386

Telex : 0715-262 NBSL IN
Cable : SOILANDBRU, NAGPUR
Fax : 91 - 712 - 532386 (international)
0712 - 532386 (India)

2. 1976
3. Institution under the ICAR
4. Director - Dr J.L. Sehgal
5. Pedology
Coorelation and Classification
Cartography
Land Use Planning
RS & API
6. None
7. Books 3820
Current Periodicals 76
8. Soil Survey Newsletter
Annual Report
9. Scientists 106
Technicians 205
10. Rs 26.22 million

1. **NATIONAL RESEARCH CENTRE FOR AGROFORESTRY (NRCA)**
Near Pahuj Dam, Jhansi-Gwalior Road, Jhansi 284003,
Uttar Pradesh, India
Tel : (0517) 442364/ 442366
Cable : KRISHIVANIKI, JHANSI

2. 1988
3. Institution under the ICAR
4. Director - Dr R. Debroy
5. Agronomy
Soil Science
Silviculture
Tree Improvement
Physiology
Microbiology
Horticulture
Statistics
Extension
6. None
7. Books 200
Current Periodicals 21
8. Agroforestry Newsletter
Annual Progress Report
9. Scientists 11
Technicians 13
10. Rs 3 million

1. **CENTRAL INSTITUTE OF AGRICULTURAL ENGINEERING (CIAE)**
Nabibag, Berasia Road, Bhopal 462018, India
Tel : (0755) 74016 / 530980 - 87
Telex : 0705-273 CIAE IN
Cable : KRIYANTRA, BHOPAL

2. 1976
3. Institute under the ICAR
4. Director - Dr R.S.Devnani
5. Crop Production Engineering
Post Harvest Engineering
Agricultural Energy and Power
Agro-Industrial Extension
Instrumentation and Data Processing
6. Provides thesis research facilities to students registered
for M.Sc and Ph.D degrees in other universities.
7. Books 8385
Current Periodicals 205

8. CIAE Newsletter

Annual Report

9. Scientists 99
Technicians 223

11. Rs 26 million

1. **CENTRAL INSTITUTE FOR RESEARCH ON COTTON TECHNOLOGY (CIRCT)**

Adenwala Road, Post Bag 16640, Matunga, Bombay 400019, India

Tel : (022) 4121002 / 4127273-76

Telex : 011-71594 CTRL IN

Cable : TECHSEARCH, BOMBAY

Fax : 91 - 22 - 5144778

2. 1924

3. Institute under the ICAR

4. Director - Dr N.B.Patil

5. Quality Evaluation(including regional units)

Mechanical Processing (including Ginning)

Physics

Chemistry

Microbiology and Biochemistry

Statistics

6. Provides thesis research facilities for M.Sc and Ph.D students registered in other universities.

7. Books 4034

Current Periodicals 200

8. CTRL Research Publications

Annual Report

9. Scientists 53

Technicians 107

10. Rs 13.25 million

1. **INDIAN LAC RESEARCH INSTITUTE (ILRI)**

Namkum, Ranchi 834010, Bihar, India

Tel : (0651) 301096/ 22715/ 28543/ 25547

Cable : LACCUM, RANCHI

2. 1925

3. Institute under the ICAR

4. Director - Dr Sharvan Kumar

5. Plant Sciences

Entomology

Chemistry

Technology

Extension

6. None

7. Books 26429

Current Periodicals 119

8. Annual Report

9. Scientists 61

Technicians 86

10. Rs 17.50 million

1. **JUTE TECHNOLOGICAL RESEARCH LABORATORIES (JTRL)**

12 Regent Park, Calcutta 700040, India

Tel : (033) 722583/ 725432/ 723192-95-97

Telex : 021-4182 JTRL IN

Cable : JUTLAB, CALCUTTA

Fax : 91 -33 - 3722583

2. 1939

3. Institution under the ICAR

4. Director - Dr S.N. Pandey

5. Textile and Non-Woven Technology

Physics and Testing

Chemical Technology and D.D.M

Chemistry and Microbiology

Technical Information Cell

- 6.
7. Books 24150
Current Periodicals 133
8. Newsletter
Brochure
Annual Report
9. Scientists 60
Technicians 66
10. Rs 9.73 million
1. **WATER TECHNOLOGY CENTRE FOR EASTERN REGION (WTCER)**
N-2/94, Nayapalli, Bhubaneswar 751012, Orissa, India
Tel : (0674) 55360
Cable : WATERTECH, BHUBANESWAR
2. 1988
3. Institution under the ICAR
4. Director - Dr S.R. Singh
5. Cropping Systems and Water use
Soil, Water and Plant Relationship
Drainage
Transfer of Technology and Training
6. None
7. Books 224
Current Periodicals 1
8. Annual Report
9. Scientists 15
Technicians 15
10. Rs 1.5 million
1. **CENTRAL INSTITUTE FOR RESEARCH ON BUFFALOES (CIRB)**
Sirsa Road, Hisar, Haryana, India
Tel : (01662) 62513/ 63170
Telex : 0345- 204 CIRB IN
Cable : BUBALINEX, HISAR
2. 1985
3. Institute under the ICAR
4. Director - Dr V.N.Tripathi
5. Buffalo Genetics and Breeding
Buffalo Nutrition
Buffalo Physiology
6. None
7. Books 500
Current Periodicals 10
8. Annual Report
9. Scientists 21
Technicians 40
10. Rs 12.5 million
1. **CENTRAL INSTITUTE FOR RESEARCH ON GOATS (CIRG)**
Makhdoom, P.O. Farah 281122, Mathura, Uttar Pradesh, India
Tel : (0565) 404810
Telex : 0565-396 CIRG IN
Cable : VETEX, FARAH
2. 1979
3. Institute under the ICAR
4. Director Dr N.K.Bhattacharya
5. Goat Genetics and Breeding
Goat Reproduction and Physiology
Goat Nutrition and Feed Resource Development
Environmental Physiology and Shelter Management
Goat Health
Goat Products Technology
Goat Production Technology Transfer
Goat Statistics and Economics

Education and Training
Central Services

6. None
7. Books 2000
Current Periodicals 200
8. Newsletter
Bulletin
Annual Report
9. Scientists 51
Technicians 72
10. Rs 14.60 million

1. **CENTRAL SHEEP AND WOOL RESEARCH INSTITUTE (CSWRI)**

Avikanagar, 13 Malpura, Rajasthan, India

Tel : () 212

Telex : 0365-2315 CSWR IN

Cable : SHEEPINST, MALPURA

2. 1962
3. Institute under the ICAR
4. Director - Dr B.C. Patnayak
5. Animal Genetics and Breeding
Nutrition
Physiology
Animal Health
Textile Manufacture and Textile Chemistry
Fibre Physics
Meat Science
Grassland and Fodder Economy
Statistics, Economy and Marketing
Biochemistry
Extension
Post Graduate Studies
6. M.Sc. and Ph.D in Animal Genetics, Breeding, Nutrition and Physiology in collaboration with State Agricultural Universities.
7. Books 15618
Current Periodicals 274
8. Sheep Bulletin
Research Programme
Research Highlight
Annual Report
9. Scientists 118
Technicians 145
10. Rs 26.68 million

1. **NATIONAL BUREAU OF ANIMAL GENETIC RESOURCES**

NDRI Campus, Karnal, Haryana, India

Tel : (0184) 23918

Telex : 0396-219 NDRI

Cable : GENETICS, KARNAL

2. 1984
3. Institution under the ICAR
4. Director - Dr Rajendra Sahai
5. National Bureau of Animal Genetic Resources
Livestock Information Management
Animal Genetic Resources and Conservation
Animal Cytogenetics
Immunogenetic Biochemical Polymorphism
Molecular Genetics
Basic Genetics
6. None
7. Books 512
Current Periodicals 25
8. Information Bulletin
Annual Report.

- 9. Scientists 9
- Technicians 7
- 10. Rs 7.29 million

1. **NATIONAL RESEARCH CENTRE ON CAMEL (NRCC)**

P.O Box No. 07, Jorbeer, Bikaner,
Rajasthan, India

Tel : (0151) 25683

Telex : 03505-221 NRCC IN

Cable : CAMCENTRE, BIKANER

- 2. 1984
- 3. Institution under the ICAR
- 4. Director - Dr N.D. Khanna
- 5. Research
 - Camel Health
 - Agricultural Farm
- 6. None
- 7. Books 367
- Current periodicals 15
- 8. Annual Report
- 9. Scientists 9
- Technicians 10
- 10. Rs 5 million

1. **NATIONAL RESEARCH CENTRE ON EQUINES (NRCE)**

Sirsa Road, Hisar, Haryana, India

Tel : (01662) 72787/ 75817

Telex : 0345-221 NRCE IN

Cable : EQUINE, HISSAR

- 2. 1985
- 3. Institution under the ICAR
- 4. Director - Dr P.K. Uppal
- 5. Equine Infectious Disease
 - Equine Clinical
 - Equine Production
 - Equine Reproduction
- 6. None
- 7. Books 40
- Current Periodicals 3
- 8. Scientific Bulletin on Equines
- Annual Report
- 9. Scientists 10
- Technicians 12
- 10. Rs 6 million

1. **NATIONAL RESEARCH CENTRE ON MITHUN (NRCM)**

Cedar Lodge, Jowai Road,
Dhankheti, Shillong 797106, India

Tel : (0364) 22433/ 22434

Telex : 0237-214

Cable : AGRICOMPLEX, SHILLONG

- 2. 1988
- 3. Institution under the ICAR
- 4. Director - Dr N.D. Verma
- 5. Animal Genetics and Breeding
 - Animal Physiology
 - Animal Health
- 6. None
- 7.
- 8. Annual Report
- 9. Scientists 6
- Technicians 5
- 10. Rs 5 million

1. **NATIONAL RESEARCH CENTRE ON YAK (NRCY)**
Dirang 790101, West Kameng, Arunachal Pradesh, India
Tel : () 259
Cable : YAKSEARCH, DIRANG
2. 1989
3. Institution under the ICAR
4. Director - Dr R.N. Pal
- 5.
- 6.
- 7.
8. Annual Report
9. Scientists 6
Technicians 5
10. Rs 100 million (Plan outlay) 1990-95

1. **PROJECT DIRECTORATE ON CATTLE (PDC)**
C-123, Shastri Nagar, Meerut 250005
Uttar Pradesh, India
Tel : (0121) 74168
Cable : CATTLESEARCH, MEERUT
2. 1986
3. Institution under the ICAR
4. Director - Dr S.C. Chopra
5. Frieswal Project
Indigenous Breeds Project
Field Progeny Project
Nutrition and Physiology
Computer Centre/Data Repository
6. None
7. Books 375
Current Periodicals 10
8. Ongole Cattle in India
Technical Bulletin
Annual Report
9. Scientists 18
Technicians 73
10. Rs 20 Million

1. **PROJECT DIRECTORATE ON POULTRY (PDP)**
Rajendranagar, Hyderabad 500030,
Andhra Pradesh, India
Tel : (042) 245650/ 245651
Telex : 0425-6104 PDP IN
Cable : POULTEX, HYDERABAD
2. 1988
3. Institution under the ICAR
4. Director - Dr S.C. Mohapatra
5. Poultry Genetics and Breeding
Poultry Nutrition and Feed Technology
Poultry Housing and Management
Poultry Health
6. None
- 7.
8. Annual Report
9. Scientists 11
Technicians 11
10. Rs 6.00 million (Non-plan)

1. **CENTRAL INLAND CAPTURE FISHERIES RESEARCH INSTITUTE (CICFRI)**
Barrackpore 743101, West Bengal, India
Tel : (033) 561190/ 561191
Telex : 021-8552 CIFI IN
Cable : FISHSEARCH, BARRACKPORE
2. 1947

3. Institute under the ICAR
4. Director - Dr Y. Rama Rao
5. Reservoir Fisheries
Wetland Fisheries
Riverine Fisheries
Environmental Monitoring
Estuaring Fisheries
Hilsa Fisheries
Resource Assessment
Training and Extension
6. None
7. Books 6121
Current Periodicals 250
8. Indian Fisheries Abstract
CICFRI Newsletter
Research Project Programme
Activity Milestone
Annual Report
9. Scientists 101
Technicians 87
10. Rs 29.60 million

1. **CENTRAL INSTITUTE OF BRACKISHWATER AQUACULTURE (CIBA)**
12 Leith Castle Street, Santhome, Madras 600028, India
Tel : (044) 74633/ 72893
Telex : 041-6054 CIBA IN
Cable : MONODON, MADRAS
2. 1987
3. Institute under the ICAR
4. Director - Dr K. Alagarwami
5. Crustacean Culture
Fin-fish Culture
Resources and Technology Improvement
Fish Farm Survey and Engineering Research
Training
Extension and Information
6. None
7. Books 458
Current Periodicals 51
8. Special Publication
Technical Bulletin
Newsletter
Annual Report
9. Scientists 67
Technicians 31
10. Rs 12.00 million

1. **CENTRAL INSTITUTE OF FISHERIES TECHNOLOGY (CIFT)**
W/Island, Matsyapuri, Cochin 682029, Kerala, India
Tel : (0484) 666845
Telex : 0885-6440 CIFT IN
Cable : MATSYAODYOGIKI/ FISHTECH, COCHIN
2. 1957
3. Institute under the ICAR
4. Director - Dr Gopi Kumar K. Panicker
5. Fishing Technology
Fish Processing
Biochemistry, Nutrition and Microbiology
Engineering and Instrumentation
Extension
Information and Statistics
6. Provides thesis research facilities for M.Sc. and Ph.D degree students registered in other universities
7. Books 6842

8. Fish Technology Newsletter
Annual Report
9. Scientists 114
Technicians 149
10. Rs 31.8 Million

1. **CENTRAL INSTITUTE OF FRESHWATER AQUACULTURE (CIFA)**

Kausalyaganga, Bhubaneswar 751002, India
Tel : (0674) 57263/ 57811
Telex : 0674-6443 CIFA IN
Cable : AQUACULT, BHUBANESWAR
Fax : 91 - 674 - 57263

2. Year of Establishment : 1985
3. Status : Institute under the ICAR
4. Head : Director - Dr S.D. Tripathi
5. Principal Units : Divisions - 9
6. Degrees Offered : M.Sc. and Ph.D degrees in association
with the Orissa University of Agriculture
and Technology (OUAT)
7. Library : Books 732
Current Periodicals 38
8. Publications : Journal Of Aquaculture
Annual Report
9. Manpower : Scientists 79
Technicians 54
10. Budget : Rs 8.29 million

1. **CENTRAL MARINE FISHERIES RESEARCH INSTITUTE (CMFRI)**

Post Box No. 2704, Dr Salim Ali Road, Ernakulum
Cochin 682031, Kerala, India
Tel : (0484) 367459/ 351867/ 369867
Telex : 0885-6435 MFRI IN
Cable : CADALMIN, ERNAKULAM

2. Year of Establishment : 1947
3. Status : Institute under the ICAR
4. Head : Director - Dr P.S.B.R. James
5. Principal Units : Fisheries Resources Assessment
Pelagic Fisheries
Demersal Fisheries
Crustacean Fisheries
Molluscan Fisheries
Fishery Environment Management
Fishery, Economics and Extension
Physiology, Nutrition and Pathology
6. Degrees Offered : M.Sc. and Ph.D. degrees in association with
the Central Institute of Fisheries
Education (CIFE)
7. Library : Books 23,000
Current Periodicals 350
8. Publications : Indian Journal of Fisheries
Bulletin of CMFRI
CMFRI Newsletter
Marine Fisheries Information Service
9. Manpower : Scientists 200
Technicians 445
10. Budget : Rs 51.55 million

1. **NATIONAL BUREAU OF FISH GENETIC RESOURCES (NBFGFR)**

2, Begambari Housing Scheme, Shivanagar, Allahpur
Allahabad 211006, Uttar Pradesh, India
Tel : (0532) 605359/ 605626
Telex : 0540-228 BEGR IN

Cable : FISHBUREAU, ALLAHABAD

2. 1983
3. Institution under the ICAR
4. Director - Dr P. Das
5. Fish Cytogenetics
Fish Biochemical Genetics
Fish Biology
Conservation and Management
6. None
7. Books 650
Current Periodicals 113
8. Annual Report
9. Scientists 31
Technicians 18
10. Rs 9.90 million

1. **NATIONAL RESEARCH CENTRE ON COLDWATER FISHERIES (NRCCF)**

Post Box No. 28, Roopnagar, Haldwani 263139, India
Tel : (05946) 20445
Cable : MAHSEER, HALDWANI

2. 1987
3. Institution under the ICAR
4. Director - Dr K.L. Sehgal
- 5.
- 6.
7. Books 217
Current Periodicals 266
8. Annual Report
9. Scientists 15
Technicians 5
10. Rs 3.36 million

1. **INDIAN AGRICULTURAL STATISTICS RESEARCH INSTITUTE (IASRI)**

Library Avenue, New Delhi 110012, India
Tel : (011) 5787121
Cable : AGRIRESTA, NEW DELHI

2. Year of Establishment : 1959
3. Status : Institute under the ICAR
4. Head : Director - Dr R.K. Pandey
5. Principal Units : Divisions -6
6. Degrees Offered : M.Sc. (Agricultural Statistics)
M.Sc. (Computer Applications)
Ph.D. (Agricultural Statistics)
7. Library : Books 18540
Current Periodicals 275
8. Publications : Newsletter
Annual Report
9. Manpower : Scientists 133
Technicians 234
10. Budget : Rs 33.7 million

1. **NATIONAL ACADEMY OF AGRICULTURAL RESEARCH MANAGEMENT (NAARM)**

Rajendranagar, Hyderabad 500030, Andhra Pradesh, India
Tel : (040) 245394/ 245395
Telex : 0425-6651 STAG IN
Cable : STAFFAGRI, HYDERABAD

2. 1976
3. Institution under the ICAR
4. Director - Dr C.Prasad
5. Agricultural Research Systems and Policies
Educational Systems and Technologies
Transfer of Technology Systems
Project Management and Policies
Human Resources Development

Information and Documentation

6. None
7. Books 20000
Current Periodicals 400
8. NAARM News
ARMA (Agricultural Research Management Abstracts)
NAARM Alumni News
Green and Glory
Annual Report
9. Scientists 43
Technicians 41
10. Rs 13.97 million

1. **CENTRAL SERICULTURAL RESEARCH AND TRAINING CENTRE (CSRTC)**

Berhampore 742101, Murshidabad, West Bengal, India

Tel : (03482) 20046/ 21233/ 21085

Telex :

Cable :

2. 1983
3. Institution under the ICAR
4. Director -
5. Moriculture
Mulberry Breeding
Genetics and Tissue Culture
Agronomy
Mulberry Physiology
Soil Science and Chemistry
Mulberry Pathology
Division of Sericulture
Silkworm Breeding and Genetics
Silkworm Physiology and Rearing Technology
Entomology
Silkworm Pathology
Reeling, Spinning and Fibre Technology
Statistics and Computer Cell
Technical Cell
Training;
Extension
Art and Photography
Museum
Administration and Accounts
6. None
7. Books 4760
Current Periodicals 86
8. Annual Research and Administrative Report
News and Views
Annual Report
9. Scientists 85
Technicians 81
10. Rs 21.6 million (1990-91)
Rs 60.7 million (1991-92)
Rs 46.8 million (1992-93)

1. **RUBBER RESEARCH INSTITUTE OF INDIA (RRII)**

Rubber Board, Kottayam 686009, Kerala, India

Tel : (0481) 8311 [6 lines]

Telex : 888-285

Cable :

Fax : 0481 - 8317

2. 1955
3. Institute under the Rubber Board, Ministry of
Commerce, Government of India
4. Director of Research
5. Agricultural Economics

Agronomy
Biotechnology
Botany
Germplasm
Mycology/Plant Pathology
Plant Physiology/Exploitation
Rubber Chemistry
Physics
Technology and Traing

6. Associates with Kerala Agricultural University, Kerala University, M.G.University and Cochin University of S & T for conducting diploma/certificate courses and courses leading to M.Sc., M.Tech., Ph.D. etc
7. Books 20463
Current Periodicals 483
Microforms 650
8. Indian Journal of Natural Rubber Research
9. Scientists 133
Technicians 147
10. Rs 291.2 million (1990-91)

1. INDIAN COUNCIL OF FORESTRY RESEARCH AND EDUCATION (ICFRE)

Dehra Dun 248006, India

Tel : (0135) 27021-28/ 23225-23228 Telex : 585-258 FRIC-IN

Fax : 91-0135-28381/ 91-0135-26865

2. 1987

3. An autonomous society under the Ministry of Environment and Forests, (MOEF), Government of India. The Minister of Environment and Forests is the ex-officio Prseident of the society. A 21 member Board Of Governors is responsible for direction and control of the affairs of the society. There are 8 research institutes and oneadvanced centre under the Council.

4. Director General - Dr D.N. Tewari

5. Administration

Research

Extension

6. Degrees offered by ICFRE's constituent institutes

7.

8. Brochures on various forest species

Books

Annual Report

9.

10.

1. FOREST RESEARCH INSTITUTE (FRI)

Dehra Dun 248006, India

Tel : (0135) 25277

Telex :

Fax :

2. Year of Establishment : 1906

3. Status : Semi-autonomous institute under the ICFRE

4. Head : Director - Dr N.K. Joshi

5. Principal Units : Divisions;

Silviculture

Resource Survey and Management

Social Forestry

Non-wood Forest Products

Chemistry

Forest Soil and Land Reclamation

Forest Ecology and Environment

Genetics and Tree Propagation

Forest Pathology

Forest Entomology

Botany

Forest Products
Cellulose and Paper

6. Degrees Offered : Ph.D. and Post Graduate diplomas in Pulp and Paper Technology, Wood Technology and Plantation Technology

- 7. Library :
- 8. Publications :
- 9. Manpower :
- 10. Budget :

1. **INSTITUTE OF FOREST GENETICS AND BREEDING (IFGB)**

Coimbatore 641002, India
Tel : (0422) 441540/ 442541/ 441942
Telex :
Cable :
Fax : 0422-440549

- 2. 1988; was initially setup as a regional research centre of the erstwhile FRI and Colleges, Dehradun
- 3. Institute under the ICFRE
- 4. Director - Dr K.N. Subramaniam

- 5.
- 6.
- 7.
- 8.
- 9.
- 10.

1. **INSTITUTE OF WOOD SCIENCE AND TECHNOLOGY (IWST)**

Bangalore 560002, India
Tel : (080) 3341731/ 3346811/ 3345965
Telex :
Cable :
Fax : 080-3340529

- 2. 1988; was initially established in 1938 as a forest research laboratory by the erstwhile state of Mysore; was taken over by the Government of India in 1956 and made a regional research centre of the erstwhile FRI and Colleges, Dehra Dun
- 3. Institute under the ICFRE
- 4. Director - Dr V.V. Srinivasan

- 5.
- 6. None
- 7.
- 8.
- 9.
- 10.

1. **TROPICAL FOREST RESEARCH INSTITUTE (TFRI)**

Jabalpur 482021, India
Tel : (0761) 322585/ 321759
Telex :
Cable :
Fax : 0761-322585

- 2. 1988; was initially established in 1973 as a regional research centre of the erstwhile FRI and Colleges, Dehra Dun
- 3. Institute under the ICFRE
- 4. Director - R.N.Gupta

- 5.
- 6. None
- 7.
- 8.
- 9.
- 10.

1. **ARID FOREST RESEARCH INSTITUTE (AFRI)**

Jodhpur 342008, India
Tel : (0291) 26034/ 28640/ 26475
Telex :
Cable :
Fax :

2. 1988

3. Institute under the ICFRE

4. Director - R.N. Mishra

5.

6. None

7.

8.

9.

10.

1. **INSTITUTE OF RAIN AND MOIST DECIDUOUS FOREST RESEARCH (IRMDFR)**

Jorhat 785001, India
Tel : (0376) 322052/ 322054/ 322056
Telex :
Cable :
Fax :

2. 1988; the erstwhile research centre of FRI and Colleges at Burnihat (Assam) has been merged with this institute

3. Institute under the ICFRE

4. Director - N.K. Joshi

5.

6. None

7.

8.

9.

10.

1. **TEMEPERATE FORSET RESEARCH INSTITUTE (CRC)**

Shimla 171001, India
Tel : (0177) 6086/ 72735/3107
Telex :
Cable :
Fax : 0177-6086

2. 1988; was established in 1977 as a regional research centre of the erstwhile FRI and Colleges, Dehra Dun

3. Institute under the ICFRE

4. Director - D.V. Negi

5.

6. None

7.

8.

9.

10.

1. **INSTITUTE OF FOREST PRODUCTIVITY (IFP)**

Ranchi 834001, India
Tel : (0651) 304628

2. 1992; was initially established as Directorate of Lac Development; was renamed as ACEP (?) in 1987

3. Institute under the ICFRE

4. Director - B.P. Singh

5.

6. None

7.

8.

9.

10.

1. **CENTRE FOR SOCIAL FORESTRY AND ECO-REHABILITATION (CSFER)**

Allahabad 211001, India

Tel : (0532) 609037

2.

3. Institution under the ICFRE

4. Deputy Conservator Forests --- A.N. Tripathi

5.

6. None

7.

8.

9.

10.

1. **INDIRA GANDHI NATIONAL FOREST ACADEMY (IGNFA)**

Dehra Dun, India

Tel : (0135) 24647

2. 1988

3. Institution under the Ministry of Environment and Forests, Government of India; primarily meant for in-service training of entrants to the Indian Forest Service.

4. Director - Dr P.N. Ray

5. Principal Units :

6. Degrees Offered : None

7. Library :

8. Publications :

9. Manpower :

10. Budget :

1. **WILDLIFE INSTITUTE OF INDIA (WII)**

Chandrabani, Dehra Dun, India

Tel : (0135) 620912 - 620915

Fax : 0135-820217

2.

3. Institute under the Ministry of Environment and Forests, Government of India

4. Director - Dr H.S. Panwar

5.

6. None

7.

8.

9.

10.

1. **FOREST SURVEY OF INDIA (FSI)**

Dehra Dun, India

Tel : (0135) 26139

2.

3. A unit of the Ministry of Environment and Forests, Government of India

4. Director - Jagir Singh

5.

6. None

7.

8.

9.

10.

1. **NATIONAL AFFORESTATION AND ECO-DEVELOPMENT BOARD (NAEB)**
New Delhi, India
Tel : (011) 4361712
- 2.
3. Organisation under the Ministry of Environment and Forests,
Government of India
4. Additional Secretary - B.P. Singh
- 5.
6. None
- 7.
- 8.
- 9.
- 10.

FOREST COLLEGES IN STATES

1. **State Forest Service College Dehra Dun,**
FRI Campus, Dehra Dun, India
Tel : (0135) 26168/ 26256
Principal - R.K. Zutshi
2. **State Forest Service College, Coimbatore, India**
Tel : (0422) 32609
Principal -
3. **Southern Forest Rangers College, Coimbatore, India**
Tel : (0422) 22642
Principal -
4. **Eastern Forest Rangers College, Kurseong, West Bengal, India**
Tel : -
Principal -
5. **Forest Rangers College, Balaghat, Madhya Pradesh, India**
Tel : 485
Principal -
6. **State Forest Service College, Burnihat, Assam, India**
Tel :
Principal -

1. Institution : **CENTRAL AGRICULTURAL UNIVERSITY**
Imphal, Manipur.
Tel :
Telex :
Cable :
2. Year of Establishment : 1993
3. Status : Autonomous body under the ICAR
4. Head : Vice Chancellor - Dr M.P. Singh
5. Principal Units : College of Agriculture, Imphal, Manipur
College of Veterinary and Animal Husbandry
Mizoram.*
College of Fisheries, Tripura.*
College of Horticulture and Forestry,
Arunachal Pradesh.*
College of Agricultural Engineering and
Post Harvest Technology, Sikkim.*
College of Home Science, Meghalaya.*
Post Graduate College of Agriculture,
Barapani, Meghalaya. *
Agro-climatic Zones _ 6
Zonal and other Research Stations - 6
(* being established)
6. Degrees Offered : B.Sc.(Ag)
M.Sc. (Ag)
7. Academic Session : July - June (2 Semesters)
8. Manpower :

- 9. Library :
- 10. Publications :
- 11. Budget : Rs 410 million for the Eighth Five Year Plan

- 1. Institution : **KERALA AGRICULTURAL UNIVERSITY (KAU)**
 Vellanikara 680654, Kerala, India
 Tel : (0487) 23034/ 23439
 Telex :
 Fax : 91 - 487 - 21259,
 Cable : AGRIVARSITY
- 2. Year of Establishment : 1972
- 3. Status : Autonomous body under the Government of Kerala
- 4. Head : Vice Chancellor - Dr A.M. Michael
- 5. Principal Units : College of Agriculture, Vellanikkara
 College of Horticulture, Vellayani
 College of Forestry, Vellanikkara
 College of Co-operation and Banking,
 Vellanikkara
 College of Agricultural Engineering &
 Technology, Tavanoor
 College of Veterinary & Animal Sciences,
 Mannuthy
 Agro-climatic Zones - 5
 Zonal and other Research Stations - 16
- 6. Degrees Offered : B.Sc. & M.Sc. in Agriculture; Co-operation and
 Banking; Forestry; Fisheries; Veterinary
 Science
 Ph. D. in Veterinary Science; Agriculture
- 7. Academic Year : July - June (2 Semesters)
- 8. Manpower : Scientists 704 (Ph.D.-602; M.Sc.-102)
 Technicians 1574
- 9. Library : Books 75012
 Current Periodicals 7
- 10. Publications : Kalpadhenu
 Agriculture Research Journal of Kerala
 Veterinary Research Journal
 Newsletter
 Anivet Abstract and Agres News
 Technical Bulletin
 Annual Report
- 11. Budget : Rs. 62 million.

- 1. Institution : **ANDHRA PRADESH AGRICULTURAL UNIVERSITY (APAU)**
 Rajendranagar , Hyderabad 500030, India
 Tel : (0842) 245011 / 245161
 Telex : 0425 6936 APAU IN
 Cable : AGRIVARSITY, HYDERABAD
- 2. Year of Establishment : 1964
- 3. Status : Autonomous body under the Government of Andhra Pradesh
- 4. Head : Dr M.V. Rao
- 5. Principal Units : College of Agriculture, Rajendranagar
 College of Veterinary & A.H., Rajendranagar
 College of Veterinary & A.H., Tirupati
 College of Home Science, Hyderabad
 College of Agriculture, Bapatla
 College of Home Science, Bapatla
 College of Agriculture, Tirupati
 College of Agriculture, Aswaraopet
 College of Agriculture, Naira
 College of Agriculture, Nandyal
 College of Fish Science, Epur
 College of Agricultural Engineering, Bapatla
 College of Dairy Technology, Tirupati
 College of Horticulture, Rajendranagar

- Agro-climatic Zones - 7
 Zonal and other Research Stations - 34
6. Degrees Offered : B.Sc.(Ag.); B.Sc.(Hort.); B.Sc.(Dairy Tech.);
 B.Sc.(Home Sc.); B.Tech.(Ag.Engg.);
 B.V.Sc. & A. H.
 M.Sc.(Ag.); M.Sc.(H.Sc.); M.V.Sc.
 Ph.D.
7. Academic Year : July - June (2 Semesters)
8. Manpower : Scientists 1217
9. Library : Books 176000
 Current Periodicals 520
 Microforms 100
10. Publications : Journal of Research
 APAU News
 Annual Report
11. Rs. 344.01 million

1. Institution : **ASAAM AGRICULTURAL UNIVERSITY (AAU)**
 Jorhat 785013, Assam, India
 Tel :
 Telex : AGRIVERSITY
 Cable :
2. Year of Establishment : 1969
3. Status : Autonomous body under the Government of Assam
4. Head : Vice Chancellor - Dr U.C. Upadhyay
5. Principal Units : College of Agriculture, Jorhat
 College of Veterinary and A.H., Guwahati
 College of Home Science, Jorhat
 College of Veterinary and A.H, Lakhimpur
 College of Fishery Science, Roha
 B.N.College of Agriculture, Sontipur
 Agro-climatic Zones - 6
 Zonal and other Research Stations - 12
6. Degrees Offered : B.Sc.(Ag.); B.V.Sc. & A.H.
 M.Sc.(Ag.); M.V.Sc.
 Ph.D.
7. Academic Year : July - June (2 Semesters)
8. Manpower : Scientists 575
9. Library : Books 125000
 Current Periodicals 703
10. Publications : AAU Newsletter
 Journal of Research
 Salient Research Findings (Annual)
 Annual Report
11. Budget : Rs. 200 million

1. Institution : **BIDHAN CHANDRA KRISHI VISWAVIDYALAYA (BCKV)**
 Mohanpur, Nadia 741252, West Bengal, India
 Tel : () 54 (via HNG)
 Cable : KRISHIBIDHAN, NADIA
2. Year of Establishment : 1974
3. Status : Autonomous body under Government of West Bengal
4. Head : Vice Chancellor - Dr R.K. Dasgupta
5. Principal Units : College of Agriculture, Cooch Behar
 College of Agriculture, Haringhatta
 College of Dairy Science, Haringhatta
 College of Veterinary Science, Haringhatta
 Agro-climatic Zones - 6
 Zonal and other Research Stations - 13
6. Degrees Offered : B.Sc. Ag.(Dairy Technology); B.V.Sc. & A.H.
 M.Sc. (Ag.); M.V.Sc.
 Ph.D. (Agriculture, Veterinary Science, and
 Animal Science)
7. Academic Year : July - June (2 Semesters)

8. Manpower : Scientists 338
 Technicians 73
 9. Library : Books 57898
 Current Periodicals 267

10. Publications : Annual Report
 11. Budget : Rs 205.42 million

1. Institution : **BIRSA AGRICULTURAL UNIVERSITY (BAU)**
 Kanke, Ranchi 834006, Bihar, India
 Tel : (0651) 22212
 2. Year of Establishment : 1955
 3. Status : Autonomous body under the Government of Bihar
 4. Head : Vice Chancellor - Dr R. Karkatta
 5. Principal Units : College of Agriculture, Ranchi
 College of Forestry, Ranchi
 College of Veterinary Science & Animal
 Husbandry, Ranchi
 Agro-climatic Zones - 3
 Zonal and other Research Stations - 3
 6. Degrees Offered : B.Sc.(Forestry); B.Sc. Ag.; B.V.Sc
 M.Sc. Ag.; M.V.Sc.
 Ph. D.

7. Academic Year : July - June (2 Semesters)
 8. Manpower : Scientists 244
 Technicians 22
 9. Library : Books 40484
 Current Periodicals 324
 10. Publications : Journal of Veterinary Science and
 Animal Husbandry
 Annual Report
 11. Budget : Rs 35.46 million

1. Institution : **C.S.AZAD UNIVERSITY OF AGRICULTURE AND TECHNOLOGY (CSAUAT)**
 Nawabganj, Kanpur 208002, India
 Tel : (0512) 244466
 2. Year of Establishment : 1975
 3. Head : Vice Chancellor - Dr U.B. Singh
 4. Status : Autonomous body under the Government
 of Uttar Pradesh
 5. Principal Units : College of Agriculture, Kanpur
 College of Veterinary Sciences, Mathura
 College of Home Science, Kanpur
 Agro-climatic Zones - 3
 Zonal and other Research Stations - 10
 6. Degrees Offered : B.Sc.(Ag.); B.Sc. (Home Science)
 B.V.Sc. & A.H.
 M.V.Sc.; M.S.(Ag.)
 Ph.D.

7. Academic Year : July - June (2 Semesters)
 8. Manpower : Scientists 310
 9. Library : Books 55634
 10. Publications : Annual Report
 11. Budget : Rs. 66.8 million

1. Institution : **GUJARAT AGRICULTURAL UNIVERSITY (GAU)**
 Sardar Krishinagar 385506 Gujarat, India
 Tel :
 Telex :
 Cable :
 Fax :
 2. Year of Establishment : 1972
 3. Status : Autonomous body under the Government of Gujarat
 4. Head : Vice Chancellor - Dr V.M. Jhala

5. Principal Units : College of Agriculture, Anand
 College of Agriculture, Navsari
 College of Agriculture, Junagadh
 College of Agriculture, Dantiwada
 College of Home Science, Dantiwada
 College of Dairy Sciences, Anand
 College of Agricultural Engineering, Junagadh
 College of Veterinary and Animal Husbandry, Anand
 College of Forestry, Dantiwada
 College of Veterinary and Animal Husbandry, Dantiwada
 Agro-climatic Zones - 8
 Zonal and other Research Stations - 20
6. Degrees Offered : B.Sc. (Ag.); B.V.Sc. & A.H.; B.Sc. (HomeSc.)
 B.Tech (Agri. Engg); B.Sc. (DT)
 M.Sc. (Ag.); M.V.Sc.; M.Sc (Dairying)
 Ph.D.
7. Academic Year : July - June (2 Semesters)
8. Manpower : Scientists 432
 Technicians 39
9. Library : Books 15397
 Current Periodicals 201
10. Publications : GAU Research Journal
 Krushi - Go - Vidya (Gujarati)
 Annual Report
11. Budget :

1. Institution : **Dr YASHWANT SINGH PARMAR UNIVERSITY OF HORTICULTURE AND FORESTRY (DYSPUHF)**
 Solan 173230, Himachal Pradesh, India
 Tel : (0179) 62, 19
 Telex :
 Cable : VANUDYAN
2. Year of Establishment : 1986
3. Status : Autonomous body under the Government of Himachal Pradesh
4. Head : Vice Chancellor - Dr B.R. Sharma
5. Principal Units : College of Horticulture, Solan
 College of Forestry, Solan
 Agro-climatic Zones - 4
 Zonal and other Research Stations - 10
6. Degrees Offered : B.Sc. in Horticulture, Home Science and Forestry
 M.Sc. in Agriculture, Horticulture, Home Science and Forestry
 Ph.D. in Agriculture, Horticulture and Forestry
7. Academic Year : July - June (2 Semesters)
8. Manpower : Scientists 201
 Technicians 181
9. Library : Books 25420
 Current Periodicals 1400
10. Publications : Audyaniki Evam Vaniki (Hindi)
 UHF Reporter
 Annual Report
11. Budget : Rs. 60.43 million

1. Institution : **G.B.PANT UNIVERSITY OF AGRICULTURE AND TECHNOLOGY (GBPUAT)**
 Pantnagar 263145, Uttar Pradesh, India
 Tel : ()
 Telex : 574 261 PANT IN .
 Cable :
 Fax :

2. Year of Establishment : 1960
3. Status : Autonomous body under the Government of Uttar Pradesh
4. Head : Vice Chancellor - Dr S.C. Mudgal
5. Principal Units : College of Agriculture, Pantnagar
College of Veterinary Science, Pantnagar
College of Home Science, Pantnagar
College of Agriculture Engineering, Pantnagar
College of Basic Sciences and Humanities, Pantnagar
College of Technology, Pantnagar
College of Fisheries, Pantnagar
College of Hill Agriculture and Forestry, Rani Chauri
Agro-climatic Zones - 4
Zonal Research stations - 7
6. Degrees Offered : B.Sc. Ag; B.V.Sc.; B.Tech.;
B.Sc. (Home Science);
B.Sc (Fishery); B.Sc (Forestry)
M.Sc. Ag; M.Sc. (Fisheries); M.V.Sc.;
M.Tech; M.Sc. (Home Science)
Ph.D. (In all faculties except Forestry)
7. Academic Year ; July - June (2 Semesters)
8. Manpower : Scientists 660
Technicians 1905
9. Library : Books 230898
Current Periodicals 1200
Audiovisuals 1427
Microforms 6080
10. Publications : Indian Farmers' Digest
Kisan Bharti (Hindi)
Pantnagar Journal of Research
Annual Report
11. Budget : Rs. 238.03 million

1. Institution : **HARYANA AGRICULTURAL UNIVERSITY (HAU)**
Hisar, Haryana, India
Tel : (01662) 3640/ 2218/ 3721 (PBX)
Telex :
Cable : AGRIVARSITY, HISAR
Fax :
2. Year of Establishment : 1970
3. Status : Autonomous body under the Government of Haryana
4. Head : Vice Chancellor - Dr S.D. Arya
5. Principal Units : College of Agriculture, Hisar
College of Home Science, Hisar
College of Agricultural Engineering, Hisar
College of Basic Sciences, Hisar
College of Veterinary and Animal Husbandry, Hisar
College of Animal Science, Hisar
College of Agriculture, Kaul
College of Sports
Agro-climatic Zones - 2
Zonal and other Research Stations - 11
6. Degrees Offered : B.Sc. Ag; B.V.Sc; B.Sc. (Home Science)
B.Tech. (Agri. Engg); B.Sc. (Physical Education)
M.Sc; M.Sc. Ag; M.V.Sc.; M.Sc. (Animal Sciences);
M.Sc. (Home Science); M.Sc. (Basic Science);
M.Tech. (Agri. Engg)
Ph.D.
7. Academic Year : July - June (2 Semesters)
8. Manpower : Scientists 1347 [B.Sc.-6; M.Sc.-434; Ph.D-907]
9. Library : Books 147074

- Current periodicals 1680
10. Publications : Haryana Kheti (Hindi)
Haryana Farming
HAU News
Journal of Research
Annual Report
 11. Budget : Rs 206.00 million
1. Institution : **HIMACHAL PRADESH KRISHI VISHVAVIDYALAYA (HPKV)**
Palampur 176002, Himachal Pradesh, India .
Tel : () 2621 , 2661
Cable : HIMKRISHI
 2. Year of Establishment : 1978
 3. Status : Autonomous body under the Government of Himachal Pradesh
 4. Head : Vice Chancellor - Dr R.P.S. Tyagi
 5. Principal Units : College of Agriculture, Palampur
College of Home Science, Palampur
College of Basic Science, Palampur
College of Veterinary & Animal Sciences,
Palampur
Agro-climatic Zones - 4
Zonal and other Research Stations - 10
 6. Degrees Offered : B.Sc.(Ag.); B.Sc.(Home Sc.); B.V.Sc.
M.Sc.(Ag.); M.Sc.(Home Sc.);
Ph.D
 7. Academic Year : July - June (2 Semesters)
 8. Manpower : Scientists 279 [M.Sc.-49; Ph.D.- 230]
 9. Library : Books 28839
Current Periodicals 757
 10. Publications : Parbatiya Khetibari
HPKV Newsletter
Himachal Journal of Agricultural Research
Agriculture Hand Book
Annual Report
 11. Budget : Rs. 81.33 million
1. Institution : **INDIRA GANDHI AGRICULTURAL UNIVERSITY (IGAU)**
Labhandi, Krishaknagar, Raipur 492012
Madhya Pradesh, India
Tel : (0771) 28481/ 28308/ 28315/ 23923
 2. Year of Establishment : 1987
 3. Status : Autonomous body under the Government of
Madhya Pradesh
 4. Head : Vice Chancellor - Dr Kirti Singh
 5. Principal Units : College of Agriculture, Raipur
College of Dairy Technology , Raipur
College of Veterinary Science & Animal
Husbandry, Anjora, Durg
Agro-climatic Zones - 3
Zonal and other Research Stations - 6
 6. Degrees Offered : B.Sc.(Ag.); B.Tech.(Dairy Tech.);
B.V.Sc. & A.H.
M. Sc.(Ag.)
 7. Academic Year : July - June (2 Semesters)
 8. Manpower : Scientists 210
Technicians 95
 9. Library : Books 29224
Current Periodicals 100
 10. Publications : IGKVV Research Journal
Annual Report
 11. Budget : Rs. 107.50 million
1. Institution : **JAWAHARLAL NEHRU KRISHI VISHWAVIDYALAYA (JNKV)**
Krishinagar, Adhartal, Jabalpur 482004 ,

Madhya Pradesh, India

Tel. : (0761) 23606/ 23771 - 3 .

2. Year of Establishment : 1964
3. Status : Autonomous body under the Government of Madhya Pradesh
4. Head : Vice Chancellor - Dr K.S. Johar
5. Principal Units : College of Agriculture, Jabalpur
College of Agriculture, Indore
College of Agriculture, Sehore
College of Agriculture, Rewa
College of Agriculture, Gwalior
College of Agriculture, Khandwa
College of Agriculture, Mandsaur
College of Basic Science
College of Agricultural Engineering, Jabalpur
College of Veterinary Science, Jabalpur
College of Veterinary Science, Mhow
Agro-climatic Zones - 9
Zonal and other Research Stations - 20
6. Degrees Offered :
7. Academic Year : July - June (2 Semesters)
8. Manpower : Scientists 975
Technicians 82
9. Library : Books 54083
Current Periodicals 100
10. Publications : Monthly Newsletter
Quarterly magazine
Krishi Vishwa
Annual Report
11. Budget : Rs. 189.87 million

1. **Institution : KONKAN KRISHI VIDYAPEETH (KKV)**
Dapoli 415712, Ratnagiri, Maharashtra, India.
Tel : (02352) 26
Cable : KONKANAGRI, DAPOLI
2. Year of Establishment : 1972
3. Status : Autonomous body under the Government of Maharashtra
4. Head : Vice Chancellor - Dr S.V. Kadrekar
5. Principal Units : College of Agriculture , Dapoli
College of Fisheries, Ratnagiri
College of Horticulture, Dapoli
College of Forestry, Dapoli
College of Veterinary Science, Bombay
Agro-climatic Zones - 3
Zonal and other Research Stations- 10
6. Degrees Offered : B.Sc.(Ag.); B.Sc.(Hort.); B.Sc.(Forestry)
B.V.Sc. & A.H.; B.F.Sc.
M.Sc.(Ag.); M.Sc.(Fish.); M.V.Sc.
Ph.D.
7. Academic Year : July - June (2 Semesters)
8. Manpower : Scientists 103
Technicians 46
9. Library : Books 40000
Current Periodicals 156
10. Institution : Konkan Krishi Vidyapeeth Newsletter
The Journal of Maharashtra Agriculture
Universities
Annual Report
11. Budget : Rs 60.20 million

1. **Institution : MAHATMA PHULE AGRICULTURAL UNIVERSITY (MPAU)**
Rahuri 413722, Ahmednagar, Maharashtra, India.
Tel : (241) 8

Cable : KRISHIVID, RAHURI

2. Year of Establishment : 1968
3. Status : Autonomous body under the Government of Maharashtra
4. Head : Vice Chancellor - S.K. Dorge
5. Principal Units : College of Agriculture, Dhulia
College of Agriculture, Pune
College of Agriculture, Kolhapur
College of Horticulture, Pune
College of Agricultural Engineering, Rahuri
KMP College of Veterinary Science, Satara
Post Graduate Institute, Rahuri
Agro-climatic Zones - 4
Zonal and other Research Stations - 17
6. Degrees Offered : B.Sc.(Ag.); B.Sc.(Hort.); B.Tech.(A.E.)
B.V.Sc.
M.Sc.(Ag.); M.Tech.(A.E.)
Ph.D.
7. Academic Year : July - June (2 Semesters)
8. Manpower : Scientists 764 [B.Sc.-10; M.Sc.-595; Ph.D.- 159]
9. Library : Books 50387
Current Periodicals 350
10. Publications : Current Research Reporter
Journal of Maharashtra Agricultural Universities .
Annual Report
11. Rs 220.06 million

1. Institution : **MARATHWADA AGRICULTURAL UNIVERSITY (MAU)**
Parbhani 431401, Maharashtra, India
Tel : (02452) PBX 301
Cable : UNIVERSITY
2. Year of Establishment : 1972
3. Status : Autonomous body under the Government of Maharashtra
4. Head : Vice Chancellor - Dr V.K. Patil
5. Principal Units : College of Agriculture, Parbhani
College of Home Science , Parbhani
College of Horticulture, Parbhani
College of Agricultural Engineering, Parbhani
College of Veterinary and Animal Husbandry, Parbhani
College of Agriculture, Latur
College of Veterinary and Animal Husbandry, Udaigir
College of Food Science and Technology, Parbhani
Agro-climatic Zones - 3
Zonal and other Research Stations - 10
6. Degrees Offered : B.Sc.(Ag.); B.V.Sc. & A.H.; B.Tech.(Food Sc.)
B.Sc.(Home Sc.); B.Sc.(Hort.); B.Tech.(A.E.)
Masters degree in Agriculture, Veterinary Science, Food Technology and Home Science.
Ph. D. in Agriculture
7. Academic Year : July - June (2 Semesters)
8. Manpower : Scientists 556
Technicians 633
9. Library : Books 45000
Current Periodicals 800
10. Publications : Shetibnati
Annual Report
11. Budget : Rs 120.00 million

1. Institution : **NARENDRA DEVA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY (NDUAT)**
Narendranagar, Kumarganj, Faizabad 224001,
Uttar Pradesh, India.
Tel : ()
Telex :
Cable : AGRIVARSITY, FAIZABAD
2. Year of Establishment : 1975
3. Status : Autonomous body under the Government of Uttar Pradesh
4. Head : Vice Chancellor - Dr S.S. Khanna
5. Principal Units : College of Agriculture, Kumarganj, Faizabad
College of Home Science Kumarganj, Faizabad
Agro-climatic Zones - 3
Zonal and other Research Stations - 7
6. Degrees Offered : B.Sc.(Ag.); B.Sc.(Home Sc.)
M. Sc.(Agriculture)
Ph.D.(Agriculture)
7. Academic Year : July - June (2 Semesters)
8. Manpower : Scientists 233
9. Library : Books 28223
Current Periodicals 207
10. Publications : NDUAT News
Narendra Deva Journal of Agricultural Research
Annual Report
11. Budget : Rs 80.00 million

1. Institution : **ORISSA UNIVERSITY OF AGRICULTURE & TECHNOLOGY (OUAT)**
Bhubaneswar 751003, Orissa, India
Tel : (0674)
Telex :
Cable : AGRITECH, BHUBANESWAR
2. Year of Establishment : 1962
3. Status : Autonomous body under the Government of Orissa
4. Head : Vice Chancellor - Dr I.C.Mahapatra
5. Principal Units : College of Agriculture, Bhubaneswar
College of Agriculture, Chiplima
College of Veterinary Science and
Animal Husbandry, Bhubaneswar
College of Agricultural Engineering and
Technology, Bhubaneswar
College of Basic Science, Bhubaneswar
College of Home Science, Bhubaneswar
College of Fishery Science, Rangeilunda
College of Sericulture, Semliguda
College of Forestry, Bhubaneswar
Agro-climatic Zones - 10
Zonal and other Research Stations - 13
6. Degrees Offered : B.Sc.; B.Sc.(Ag.); B.V.Sc.& A.H.;
B.Sc.(Ag.Engg & Tech); B.Sc.Engg.
(Mech., Civil, Elect. Architecture)
B.Sc.(Fishery); B.Sc.(Home Sc.)
M.Sc.(Ag.); M.Sc.Ag.(Engg. & Tech.); M.V.Sc.
Ph.D. (Veterinary); Ph.D. (Agriculture)
7. Academic Year : July - June (2 Semesters)
8. Manpower : Scientists 276
Technicians 14
9. Library : Books 121079
Current Periodicals 482
10. Publications : Annual Report
11. Budget : Rs 92.84 million

1. Institution : **PUNJAB AGRICULTURAL UNIVERSITY (PAU)**
Ludhiana 141001, Punjab, India
Tel : (0161) 51960 PBX
Telex :
Cable : AGRIVARSITY, LUDHIANA
2. Year of Establishment : 1962
3. Head : Vice Chancellor - Dr A.S. Khera
4. Status : Autonomous body under the Government of Punjab
5. Principal Units : College of Agriculture, Ludhiana
College of Home Science, Ludhiana
College of Basic Sciences & Humanities,
Ludhiana
College of Agricultural Engineering, Ludhiana
College of Veterinary Science, Ludhiana
College of Home Science, Kaoni
Agro-climatic Zones - 5
Zonal Research Stations -14
6. Degrees Offered : B.Sc.Ag. (Hons.); B.Tech.; B.V.Sc. & A.H.
B.Sc. (Home Sc.);
M.Sc.; M.Tech.; M.Sc.Ag.; M.V.Sc.
M.Sc. (Home Sc.); M.B.A.
Ph.D
7. Academic Year : July - June (2 Semesters)
8. Manpower : Scientists 1310
Technicians 141
9. Library : Books 182462
Current Periodicals 1413
10. Publications : Journal of Research
Progressive Farming
11. Budget : Rs. 320.79 million

1. Institution : **PUNJABRAO KRISHI VIDYAPEETH (PKV)**
Krishinagar, Akola 444104, Maharashtra, India
Tel : (0724) 5365/ 5372 / PBX 6841-56
Telex : 0725/215 PKB IN .
Cable :
2. Year of Establishment : 1969
3. Status : Autonomous body under the Government of Maharashtra
4. Head : Vice Chancellor - Dr B.G. Bathkal
5. Principal Units : College of Agriculture, Akola
College of Horticulture, Akola
College of Agricultural Engineering and Technology,
Akola
College of Veterinary Science, Nagpur
College of Agriculture, Nagpur
College of Agriculture, Akola
College of Forestry, Akola
Post Graduate Institute, Akola
- Affiliated Colleges: Anandniketan College of Agriculture,
Warora, Chandranpur
Sri Shivaji College of Agriculture, Amravati
Agro-climatic Zones - 3
Zonal Research Stations - 12
6. Degrees Offered : B.Sc. (Ag.; Hort.; Forestry); B.V.Sc. & A.H.
B.Tech.
M.Sc.Ag.; M.V.Sc; M.Tech. (Agri Engg)
Ph.D. (Ag.; Veterinary)
7. Academic Year : July - June
8. Manpower : Scientists 1040
9. Library : Books 92429
Current Periodicals 621
10. Publications : PKV Research Journal
PKV Newsletter

PKV Annual report
PKV Annual Research Report

11. Budget : Rs. 166.52 million

1. Institution : **RAJASTHAN AGRICULTURAL UNIVERSITY (RAU)**
Bikaner 334001, Rajasthan, India
Tel : (0151) 5357/ 6176/ 5836
Telex : 03505 - 208 - RKVB IN
Cable :
2. Year of Establishment : 1987
3. Status : Autonomous body under Government of Rajasthan
4. Head : Vice Chancellor - Dr H.G. Singh
5. Principal Units : Rajasthan College of Agriculture, Udaipur
Dungar College of Agriculture, Bikaner
College of Agricultural Engineering and
Technology, Udaipur
M.S. College of Home Science, Bikaner
College of Dairy Technology, Udaipur
College of Home Science, Udaipur
S.K.N. College of Agriculture, Jobner
Bikaner College of Veterinary and Animal
Sciences, Bikaner
Agro-climatic - 9
Zonal and other Research Stations -25
6. Degrees Offered : B.Sc.Ag.; B.Sc.A.E.; B.Sc.Home Science
B.V.Sc & A.H.; B.Sc. (Dairy Technology)
M.Sc.(Ag.); M.V.Sc.; M.E.Ag.;
Ph.D. (Vet., Ag.)
7. Academic Year : July - June (2 Semesters)
8. Manpower : Scientists 1086
Technicians 1302
9. Library : Books 5099
Current Periodicals 5
10. Publications : Research Journal
University News
Apna Patra (Hindi)
Annual Report
11. Budget : Rs. 270.40 million

1. Institution : **RAJENDRA AGRICULTURAL UNIVERSITY (RAU)**
Pusa, Samastipur 848125, Bihar, India
Tel : (06724) 26
Telex :
Cable :
Fax :
2. Year of Establishment : 1970
3. Status : Autonomous body under the Government of Bihar
4. Head : Vice Chancellor - Dr K.S. Chauhan
5. Principal Units : College of Agriculture, Sabour
College of Agricultural Engineering, Pusa
College of Agriculture, Dholi
College of Veterinary Science, Patna
S.G. Institute of Dairy Technology, Patna
College of Home Science, Pusa
College of Fisheries, Dholi
Agro-climatic Zones - 3
Zonal and other Research Stations - 9
6. Degrees Offered : B.Sc.Ag.; B.V.Sc. & A.H.; B.Sc.(Dairy Tech.)
B.Sc.(A.E.); B.Sc.(Fisheries); B.Sc.(Home Sc.)
M.Sc.Ag; M.V.Sc; M.Sc.(A.E.); M.Sc (Fisheries).
Ph.D.(Veterinary, Agriculture)
7. Academic Year : July - June (2 Semesters)
8. Manpower : Scientists 677
9. Library : Books 42486

Current Periodicals 393

10. Publications : Adhunik Kisan Patrika (Hindi)
RAU Research Journal
Adhunik Kisan Diary (Hindi)
Annual Report
11. Budget : Rs. 195.60 million

1. Institution : **SHER-E-KASHMIR UNIVERSITY OF AGRICULTURAL SCIENCES (SKUAS)**
Shalimar Campus, Srinagar 191121, India .
Tel : (0194) 61257/ 61258/ 61259
Telex :
Cable :
2. Year of Establishment : 1982
3. Status : Autonomous body under the Government of Jammu and Kashmir
4. Head : Vice Chancellor - Dr M.A.Dhar
5. Principal Units : College of Agriculture, Sopore
College of Veterinary and Animal Husbandry, Srinagar
Post Graduate Institute of Agriculture, Srinagar
Agro-climatic Zones - 4
Zonal and other Research Stations -13
6. Degrees Offered : B.Sc.Ag.; B.V.Sc.
M.Sc.(Ag.); M.V.Sc
7. Academic Year : July - June (2 Semesters)
8. Manpower : Scientists 373
Technicians 79
9. Library : Books 35000
Current Periodicals 400
10. Publications :
11. Budget : Rs. 14.78 million

1. Institution : **TAMIL NADU AGRICULTURAL UNIVERSITY (TNAU)**
Coimbatore 641003, Tamil Nadu, India .
Tel : (0422)
Telex : 855 - 360 TNAU IN .
Cable :
2. Year of Establishment : 1971
3. Status : Autonomous body under the Government of Tamil Nadu
4. Head : Vice Chancellor - Dr S. Sankaran
5. Principal Units : Agricultural College and Research Institute, Kumalur
Horticultural College and Research Institute, Coimbatore
Horticultural College and Research Institute, Periyakulam
Agricultural Engineering College, Coimbatore
Forestry College and Research Institute, Mettupalayam
Agricultural College and Research Institute, Coimbatore
Agricultural College and Research Institute, Madurai
Home Science College and Research Institute, Madurai
Agricultural College and Research Institute, Killikulam
Agro-climatic Zones - 7
Zonal Research Stations - 29
6. Degrees Offered : B.Sc.Ag; B.Sc. Hort; B.Sc.Home Science;
B.Sc.Fisheries; B.V.Sc.; B.E.Agri. Engg.

M.Sc. Sugarcane Production; M.Sc.Ag;
M.Sc.Hort; M.Sc.Home Science; M.V.Sc;
M.E.Agri.Engg
Ph.D.(Agriculture and Veterinary Science)

7. Academic Year : July - June (2 Semesters)
8. Manpower : Scientists 1033
Technicians 84
9. Library : Books/Bound Periodicals 186037
Current Periodicals 1287
10. Publications : Valarum Vezhanmai (Tamil)
Seithi Medal (Tamil)
Uzhavan Thunaivan (Tamil)
Journal of Biological Control
Rural Development Review
Madras Agricultural Journal
South Indian Horticulture
Tamil Nadu Journal of Extension Education
TNAU Newsletter
Annual Report
11. Budget : Rs. 262.87 million

1. Institution : **TAMILNADU VETERINARY AND ANIMAL SCIENCE UNIVERSITY (TNVASU)**
Madras 600 007, Tamilnadu, India.
Tel : (044)
Telex : 041-5049
Cable : UNIVVET,MADRAS
Fax : 91 - 44 - 560114

2. Year of Establishment :
3. Status : Autonomous body under the Government of Tamil Nadu
4. Head : Vice Chancellor - Dr V.G. Prakasam.
5. Principal Units : College of Veterinary Science and Research Institute, Madras
College of Fishery Science and Research Institute, Tuticorin
College of Veterinary Science and Research Institute, Namakkal
6. Degrees Offered :
7. Academic Year :
8. Manpower :
9. Library :
10. Publications :
11. Budget :

1. Institution : **UNIVERSITY OF AGRICULTURAL SCIENCES BANGALORE (UASB)**
Bangalore 560065, India
Tel : (0812) 330153
Telex : UAS, GKVK 845 - 8393 UASK IN
Cable : UNIVAGRES

2. Year of Establishment : 1964
3. Status : Autonomous body under the Government of Karnataka
4. Head : Vice Chancellor - Dr K.V. Devaraja
5. Principal Units : College Of Agriculture, Bangalore
College of Dairy Science, Bangalore
College of Veterinary and Animal Husbandry, Bangalore
College of Sericulture, Bangalore
College of Marketing and Banking
College of Fisheries, Mangalore
Agro-climatic Zones - 5
Zonal and other Research Stations - 16
6. Degrees Offered : B.Sc.in Agriculture; Horticulture;
Dairy Technology; Agricultural Marketing &

Co-operation; Forestry; Fisheries
B.V.Sc
M.Sc.in Agriculture, Horticulture, Dairy
Science, Fisheries
M.V.Sc.
Ph.D.

7. Academic Year : July - June (2 Semesters)
 8. Manpower : Scientists 930
 9. Library : Books 98314
Current Periodicals 1051
 10. Publications : Mysore Journal of Agricultural Sciences
Current Research
UAS Diary
Krishi Vignana
Annual Report
 11. Budget : Rs. 215.07 million
1. Institution : **UNIVERSITY OF AGRICULTURAL SCIENCES
DHARWAD (UASD)**
Krishinagar, Dharwad 580005, India
Tel : (0836) 42521 -54 / 42617-18
Telex : 865244 AGCDIN
Cable : UNIVAGRIS, DHARWAD
2. Year of Establishment : 1986
 3. Status : Autonomous body under the Government of Karnataka
 4. Head : Vice Chancellor - Dr P.V. Rai
 5. Principal Units : College of Agriculture, Dharwad
College of Agriculture, Raichur
College of Home Science, Dharwad
College of Agricultural Engineering, Raichur
College of Veterinary and Animal Husbandry,
Bidar
College of Forestry, Sirsi
College of Agriculture, Bijapur
Agro-climatic Zones - 5
Zonal Research Stations - 17
 6. Degrees Offered : B.Sc.Ag.; B.V.Sc.; B.Sc. Marketing
& Cooperation; B.Sc. Forestry
B.Sc. Home Science
M.Sc.Ag.; M.V.Sc.; M.Sc. Home Science
Ph. D. Agriculture
 7. Academic Year : July - June (2 Semesters)
 8. Manpower : Scientists 380 [B.Sc.-62; M.Sc.-212; Ph.D.-106]
 9. Library : Books 48402
Current Periodicals 558
 10. Publications : Karnataka Journal of Agricultural Sciences
Krishi Munnade (Kannada)
Annual Report
 11. Budget : Rs. 150.30 million

SRI LANKA

Selected Indicators of Agricultural Development

Country	: SRI LANKA
Total Area	: 6,463,000 Ha
Forest Coverage (%)	: 27%
Annual Average Change (%) (For 1980-89)	: -0.1%
Cultivated Area	:
Population	: 17,217,000
Annual Growth Rate of Population	: 1.5%
Agricultural Population	: 52%
Illiteracy Rate	: 12%
National GNP	: 9,459 million US \$
GNP Per Capita	: 540 US \$
GNP: Real Growth Rate (per capita)	: 2.2%
Share of Agriculture in GDP	: 26%
Growth Rate of Agricultural Production	:
Agricultural Export as % of Total Export	: 41%
Major Agricultural Commodities	: Rice, Root Crops, Livestock, Coconuts, Vegetables, Tea
Major Agricultural Imports	: Cereals, Dairy Products, Vegetable Oils, Forestry Products, Sugar
Major Agricultural Exports	: Tea, Vegetable Oils, Forestry Products, Oil Seeds

Selected Indicators of Research

State of Agriculture and Research

Traditionally agriculture has been the mainstay of Sri Lankan economy, maintaining its share of GDP since early 1970's and providing about 50% of the employment. The overall value of agricultural production during 1978-82 grew at about 4% per annum. This was due to a rise in the contribution of commodities produced mainly for domestic consumption. In the share of the traditional export crops there has been a steady decline.

Agricultural Research System

In Sri Lanka agricultural research is carried out in at least 15 separate research institutes and departments which function under 7 ministries and the Office of the President. These research institutions can be divided into two groups namely:

1. Those within departments of individual line ministries and
2. Those which are statutory bodies set up by acts of the Parliament and governed by Boards provided in the Acts. These are semi-autonomous units operating within ministries.

Ministry of Agricultural Development and Research (MADR)

The Ministry of Agricultural Development and Research is responsible for research and development for all crops except rubber, tea, coconuts and cashewnuts. Within the Ministry, research is carried out in four separate units:

- Department of Agriculture
- Department of Minor Export Crops
- Agrarian Research and Training Institute
- Sugarcane Research Institute

In the Department of Agriculture research is organised on a regional basis. There are three main climatic zones in the country which have been further divided into eight agro-ecological regions on the basis of climate, relief and soils. The main irrigated and associated non-irrigable areas of the Mahaweli system C are regarded as an additional region. There are nine Regional Research Centres (RRC) and three research centres devoted to special crops/ situations. Some of the RRC's have smaller satellite experiment stations.

Regional Research Centres

Satellite Stations

killinochchi
(northern dry zone)

Thirinelvely
Paranthan
Murunkan

Maha Illuppallama
(central dry zone)

Karadiyan Aru
(eastern dry zone)

Angunakolapelessa
(southern dry zone)

Ambalantota

Makandura
(low country intermediate zone)

Wanathavillu
Kalpitiya

Bandarawela
(up- country intermediate zone)

Rahangala
Monaragala
Bibile
Pusellawa

Gannoruwa
(mid country wet zone)

Bombuwela
(low country wet zone)

Labuduwa
Bentota

Gira Andura Kotte
(for Mahaweli System C)

Special research Centres:

- i. Batalopgoda, for rice breeding and agronomy
- ii. Sita Eliya, for potatoes and vegetables
Aralanganwila, for Mahaweli System B

Ministry of Lands and Land Development (MLLD)

Under the Ministry of Lands and Land Development two departments have small research programmes directly concerned with agricultural production. These are;

1. Research Division of the Forest Department
2. Land Use Division of the Irrigation Department

Ministry of Rural Industrial Development (MRID)

Within the Ministry of Rural Industrial Development the Department of Animal Production and Health carries out research mainly on animal health but also does some work on pastures and feeding of livestock.

Ministry of Plantation Industries (MPI)

Under the Ministry of Plantation Industries there are two major research institutes namely;

1. The Tea Research Institute (TRI)
2. The Rubber Research Institute (RRI)

Both these research institutes are statutory bodies controlled by their respective Boards.

Ministry of Coconut Industries (MCI)

Under the Ministry of Coconut Industries there is a Coconut Development Authority which operates through two Boards namely;

1. **The Coconut Development Board**
2. **The Coconut Research Board**

The Coconut Research Board is responsible for research on the production of coconut crop and on the processing of its kernel and non-kernel products.

Ministry of Fisheries (MF)

Under the Ministry of Fisheries there is a National Aquatic Resources Agency (NARA) which is a statutory body having responsibility for research and development of marine and freshwater fishery resources. It has a main research station in Colombo and three sub-stations outside.

Ministry of Higher Education (MHE)

The Ministry of Higher Education controls the University System. Within the University System agricultural research is carried out by the following units;

1. Faculties of Agriculture in the University of Peradeniya
2. Faculty of Agriculture in the University of Ruhuna
3. Faculty of Agriculture in the University of Jaffna
4. Faculty of Agriculture in the Eastern University
5. Faculty of Veterinary Medicine and Animal Science, University of Peradeniya
6. Postgraduate Institute of Agriculture, University of Peradeniya

These units in the University System represent a substantial resource of trained staff and research infrastructure but receive very little core funding for research from the Ministry of Higher Education. Project funding is obtained by faculty members from several sources and is used mainly in the postgraduate training programmes in which the staff and students of the Faculty of Agriculture and Faculty of Veterinary Science are involved. The Deans of the two university faculties and Director of the Postgraduate Institute of Agriculture report to the Vice Chancellor and through him to the University Grants Commission and the Ministry of Education.

The Office of the President

There is a Natural Resources, Energy and Science Authority headed by a Director General who reports directly to the Sri Lankan President. This authority provides some support to agricultural research through grants to individual scientists in the public sector for research on topics of high national priority.

1. MINISTRY OF AGRICULTURE, FOOD AND COOPERATIVES (MAFC)

73/1, Galle Road, Colombo 3, Sri Lanka

Tel : 26346/ 26464

Telex : 21434 AGMIN CE

Cable : SECMIN AGRI

2. 1970

3.

4. Secretary

5. Agriculture Department

6.

7. Books 5000

Current Periodicals 15

8.

9.

10.

1. MINISTRY OF PLANTATION INDUSTRIES (MPI)

349, Galle Road, Colombo 3, Sri Lanka

Tel : 573263/ 573264

Telex :
Cable :
Fax : 94/575104

2. 1972
- 3.
4. Secretary
5. Office of the Minister of State for Plantation Industries
Office of the Minister of State for Plantations
Office of the Minister of State for Coconut Industries
- 6.
7. Books 250
Current Periodicals 40
- 8.
- 9.
- 10.

1. **CENTRAL AGRICULTURAL RESEARCH INSTITUTE**

DEPARTMENT OF AGRICULTURE
Gannoruwa, Peradeniya, Sri Lanka
Tel : 08-88011/ 88012/ 88013
Telex :
Cable :

2. 1958
- 3.
4. Deputy Director
5. Botany
Chemistry
Entomology
Food Technology
Horticulture
Maintenance of Laboratory and Equipment
Plant Pathology
Plant Quarantine
Biotechnology
Farm Management
Soyafood Research Centre
Agricultural Research Station Pallekele and Kundasale
- 6.
7. Books 15000
Current Periodicals 130
Microforms 2000
8. Tropical Agriculturist
Govikam Sangarawa
Krushi
9. Scientists 53
Technicians 38
10. Rs 0.12 million

1. **COCONUT RESEARCH INSTITUTE (CRI)**

Bandirippuwa Estate, Lunuwila, Sri Lanka
Tel : (030) 3795/ (031) 5300
Telex :
Cable :
Fax : 0094317195

2. 1929
- 3.
4. Director
5. Genetics and Plant Breeding
Soils and Plant Nutrition
Agronomy
Crop Protection
Plant Physiology
Tissue Culture
Biometry

Advisory and Information Services

- 6.
7. Books 5000
Current Periodicals 140
Microforms 2200
8. Coconut Bulletin
COCOS
Pol Pawath
Occasional Publications
Annual Report
9. Scientists 37 [B.Sc.-28; M.Sc.-5; Ph.D-4]
- 10.

1. **RUBBER RESEARCH INSTITUTE OF SRI LANKA (RRISL)**

Tel : 034-71426
Telex :
Cable : RUBRS AGALAWATTA

2. 1909
- 3.
4. Director
5. Plant Science
Plant Pathology
Plant Breeding and Genetics
Soils and Plant Nutrition
Rubber Chemistry
- 6.
7. Books 4256
Current Periodicals 156
8. Journal of the Rubber Research Institute of Sri Lanka
Annual Review of the Rubber Research Institute of Sri Lanka
Bulletin of the Rubber Research Institute of Sri Lanka
9. Scientists 42
Technicians 76
- 10.

1. **SUGARCANE RESEARCH INSTITUTE (SRI)**

10/1, Laxapana, Mawatha, Jayanthipura
Battaramulla, Sri Lanka
Tel : 566733
Telex : 22094 TWO CE
Fax : 94 156673

2. 1981
- 3.
4. Director
5. Agronomy
Breeding
Biometry
Economics and Data Processing
Chemistry
Engineering
Pest Management
Microbiology
Extension and Training
- 6.
7. Books 1140
Current Periodicals 12
8. SRI Newsletter
Annual Research Report
9. Scientists 15
Technicians 8
10. Rs 0.2 million

1. **TEA RESEARCH INSTITUTE (TRI)**
 St Coombs, Talawakelle, Sri Lanka
 Tel : (052) 8244/ 8385/ 8386
 Telex :
 Cable : (0512) 601
2. 1925
- 3.
4. Director
5. Agricultural Chemistry
 Agronomy
 Biochemistry
 Entomology
 Nematology
 Plant Pathology
 Plant Physiology
 Statistics
 Plant Propagation and Plant Breeding
 Technology and Land Use Mapping Unit
- 6.
7. Books 4000
 Current Periodicals 200
8. Sri Lanka Journal Of Tea Science
 Tea Bulletin
 Annual Report (Technical)
9. Scientists 18
 Technicians 90
10. Rs 1.27 million

1. **NATIONAL INSTITUTE OF PLANTATION MANAGEMENT (NIPM)**
 M.D.H.Jayawardena Mawatha, Aturugiriya, Sri Lanka
 Tel : 561232
 Telex :
 Cable :
2. 1979
- 3.
4. Director
5. Financial Management
 General Management
 Agricultural Economics
- 6.
7. Books 900
 Current Periodical 14
8. Journal of the National Institute of Plantation Management
9. Scientists 7
 Technicians 3
10. Rs 10 million

1. **AGRARIAN RESEARCH AND TRAINING INSTITUTE (ARTI)**
 114, Wijerama Mawatha, Colombo 7, Sri Lanka
 Tel : 696981/ 696437/ 698593/ 698541
 Telex : 21434 AGMIN CE
 Cable : AGRATI, Colombo
2. 1972
- 3.
4. Director
5. Agricultural Planning and Evaluation
 Agricultural Resource Management
 Irrigation Water Management and Agrarian Relation
 Marketing and Food Policy
 Statistics and Data Processing
 Training
- 6.
7. Books 12500

- Current Periodicals 300
- 8. Sri Lanka Journal of Agrarian Studies
Farmers' Journal in Sinhala and Tamil
"Diyawara" Newsletter on Irrigation, Water Management and Related Issues
Food Commodities Bulletin
ARTI Newsletter
- 9. Scientists 36
Technicians 22
- 10. Rs 14 million

1. **DEPARTMENT OF IRRIGATION (DI)**
Baudhaloka Mawatha, Colombo 7, Sri Lanka
Tel : 5883301-4
Telex : 21928 DIRRIG CE
Cable :

- 2. 1900
- 3.
- 4. Director
- 5. Planning
Project Designs
Remote Sensing
Land Use
Engineering Material
Operation and Maintenance
Training
Construction in the Field
Geology
Hydrology
Hydraulics

- 6.
- 7. Books 5700
Current Periodicals 3000
- 8. SLNCOLD Bulletin
- 9. Scientists 349
Technicians 2865
- 10. Rs 669.29 million

1. **DEPARTMENT OF METEOROLOGY (DM)**
Baudhaloka Mawatha, Colombo 7, Sri Lanka
Tel : 694846/ 694104/ 686499
Telex :
Cable : OBSY COLOMBO

- 2. 1907
- 3.
- 4. Director
- 5. National Meteorological Centre
Climatology
Agrometreology
Hydro-Meteorology

- 6.
- 7. Books Numerous
- 8. Monthly Weather Summary
Quarterly Weather Summary
Annual Report
- 9. Scientists 21
Technicians 199
- 10. Rs 23 million

1. **INSTITUTE OF FUNDAMENTAL STUDIES (IFS)**
Hantana Road, Kandy, Sri Lanka
Tel : (08) 32002
Telex : 21700 IFS CE
Cable : FUNDAMENTAL
Fax : 094 8 32131

2. 1981
- 3.
4. Director
5. Biotechnology
 - Earth and Space Sciences (including soil)
 - Biological Sciences
 - Physical and Chemical Sciences
 - Archaeology
 - Computer and Mathematical Sciences
- 6.
7. Books 1400
 - Current Periodicals 20
- 8.
9. Scientists 45 [B.Sc.-15; M.Sc.-6; Ph.D.-24]
10. Rs 66.3 million

1. INSTITUTE OF SURVEYING AND MAPPING (ISM)

Diyatalawa, Sri Lanka
 Tel : (057) 2001
 Telex :
 Cable : SUPSURVE-DIYATALAWA

2. 1967
- 3.
4. Superintendent of Surveys
5. Technicians Course
 - Degree Course
 - Post Course
- 6.
7. Books 5900
 - Current Periodicals 10
- 8.
9. Scientists 15 [B.Sc.-11; M.Sc-4]
 - Technicians 12
10. Rs 7.5 million

1. NATIONAL AQUATIC RESOURCES AGENCY (NARA)

Crow Island, Colombo 15, Sri Lanka
 Tel : 522000/ 522006/ 522007
 Telex : 22181 NARA CE
 Cable :

2. 1982
- 3.
4. Director General
5. Marine Biological Resources
 - Aquaculture and Inland Fisheries
 - Environmental Study Unit
 - Institute of Postharvest Technology
 - Oceanography
 - National Hydrography Office
- 6.
7. Books 2766
 - Current Periodicals 21
 - Recorded High Band Tapes 200
 - Prints and Slides 5000
8. Journal Of Aquatic Resources Agency
9. Scientists 38
 - Technicians 48
10. Rs 45.2 million

1. CEYLON INSTITUTE OF SCIENTIFIC AND INDUSTRIAL RESEARCH (CISIR)

P.O.Box 787, 363 Baydhaloka Mawatha, Colombo 7, Sri Lanka
 Tel : 598624
 Telex :

- 6.
7. Books 4500
Current Periodicals 70
8. The Sri Lanka Forester
Newsletter
9. Scientists 49 [B.Sc.-28; M.Sc.-20; Ph.D.-1]
Technicians 804
10. Rs118.71 million

1. **SRI LANKA FORESTRY INSTITUTE (SLFI)**
Moon Plains, Hawa Eliya, Nuwara-Eliya, Sri Lanka
Tel :
Telex :
Cable :

2. 1958
- 3.
4. Director
5. Sri Lanka Forestry Training College
Up-Country Forestry Research Centre
- 6.
7. Books 2000
Current Periodicals 15
8. Newsletters on research activities and forestry training*
Forestry College Annuals*
(* to be produced)
9. Scientists 2
Technicians 5
10. Rs 0.75 million

1. **DEPARTMENT OF EXPORT AGRICULTURE**
(Formerly Department of Minor Export Crops)
1095 Kandy Road Peradeniya, Sri Lanka
Tel : (08) 88651/ 88362/ 88363/ 88364/ 88365
Telex :
Cable :

2. 1972
- 3.
4. Director
5. Crop Production
Development and Extension
Agronomic Research
Economic and Marketing Research
Training
Plant Protection
Publicity
- 6.
7. Books 1000
Current Periodicals 25
Audiovisual Material
8. Minor Export Crops Newsletter
Administration Reports
Technical Bulletins
9. Scientists 55
Technicians 208
10. Rs 8.8 million

1. **MARGA INSTITUTE (MI)**
61, Isipawana Mawatha, Colombo 5, Sri Lanka
Tel :
Telex : 21642 Marga
Cable : MARGA

2. 1972
- 3.
- 4.

- 5.
- 6.
- 7.
8. Marga
- 9.
- 10.

1. Institution : **EASTREN UNIVERSITY**
 Chankalady, Sri Lanka
 Tel : (065) 2473
 Telex :
 Cable : EASTERN UNIVERSITY, CHANKALADY, SRI LANKA
2. Year of Establishment : 1986; initially established in 1981
 as the Batticaloa University College
3. Status : Autonomous body under the Ministry of Higher
 Education, Government of Sri Lanka
4. Head : Vice Chancellor - Prof S. Saudanam
5. Principal Units : Faculty of Agriculture and three
 more faculties
6. Degrees Offered : B.Sc. Ag.-4 years
 M. Phil.- Minimum 2 years full time by thesis
 Ph. D. - Minimum 3 years full time by thesis
7. Academic Year : October - July (3 terms)
8. Manpower : Not available seperately for the Faculty of
 Agriculture
9. Library : Books 18429
 Current Periodicals 2091
10. Publications :
11. Budget :

1. Institution : **UNIVERSITY OF JAFFNA SRI LANKA (UJSL)**
 Thirunelvely, Jaffna, Sri Lanka
 Tel : (021) 22481/ 23626
 Telex :
 Cable : UNIVERSITY, JAFFNA, SRI LANKA
2. Year of Establishment : 1979. Previously established in 1974
 as the Jaffna College of the University
 of Sri Lanka
3. Status : Autonomous body under the Ministry of Higher
 Education, Government of Sri Lanka
4. Head : Vice Chancellor - Prof A. Thurairajah
5. Principal Units : Faculty of Agriculture and three
 more faculties
6. Degrees Offered : B.Sc.Special - 4 years
 M.Sc. - 2 years full time or 3 years
 part time usually by
 dissertation, written and
 oral examination in Plant
 Physiology and Horticulture
7. Academic Year : October - September (3 terms)
8. Manpower : Not available seperately for the Faculty
 of Agriculture
9. Library : Books 82146
 Periodicals 4000
10. Publications : Annual Report
11. Budget :

1. Institution : **UNIVERSITY OF PERADENIYA (UP)**
 Peradeniya, Sri Lanka
 Tel. : (08) 88051
 Telex
 Fax : 08 - 88151
2. Year of Establishment : 1978. Initially set up in 1942 as

the University of Ceylon

3. Status : Autonomous body under the Ministry of Higher Education,
Government of Sri Lanka
4. Head : Vice Chancellor - Prof J.M. Gunadasa

5. Principal Units : Faculty of Agriculture
Faculty of Veterinary Science
and five more faculties.

Also a Post-Graduate Institute of Agriculture established in 1975 to meet need for higher level trained manpower in Agriculture; functions as a unit within the university under a Director, who reports to the Institutes' own Board of Management. Facilities for Post-Graduate training and research (M.Sc., M.Phil. Ph.D., Diplomain Food and Nutrition Policy Planning). The Institute also draws on staff from universities and research institutes in the country, uses the laboratory and farm facilities of those institutions and acts as a coordinating agency in conducting Post Graduate training programmes.

6. Degrees Offered : B.Sc.Ag. - 4 years
B.V.Sc. - 4 years
M.Sc.Ag. - 3 terms full time by coursework
and examination
M.V.Sc. - 2 years full time by course work
Ph.D. - 3 years full time in all faculties
Ph.D. - 2 years for Veterinary Science by thesis
7. Academic Year : October - September (3 terms)
8. Manpower : Not available separately for the Faculty of
Agriculture
9. Library : Books 410,112 (total)
Agriculture Library 28,891
10. Publications : Annual Report
11. Budget :

1. **Institution : UNIVERSITY OF RUHUNA (UR)**

Matara, Sri Lanka
Tel : (041) 2683
Telex :

Cable : UNIVERSITY OF RUHUNA, MATARA, SRI LANKA

2. Year of Establishment : 1984. Formerly a campus of the University
of Sri Lanka 1978. Reconstituted as
Ruhuna University College in 1979
3. Status : Autonomous body under the Ministry of Higher Education,
Government of Sri Lanka
4. Head : Vice Chancellor - Prof N. Chandrasiri
5. Principal Units : Faculty of Agriculture and three more faculties
6. Degrees Offered : B.Sc.Ag. - 4 years full time
M.Phil.Ag. - 21 months full time or 33
months part-time by thesis
in Agricultural Biology,
Agricultural Chemistry,
Agricultural Economics,
Agricultural Engineering,
Animal Science and
Crop Science.
7. Academic Year : October - September (3 terms)
8. Manpower : Not available separately for the Faculty of
Agriculture
9. Library : Books 48516 (Total)*
Periodicals 2063 (Total)*
(* divided into four sections attached to the four faculties)
10. Publications : Annual Report
11. Budget :

1. Institution : **UNIVERSITY OF COLOMBO (UC)**
 College House, P.O.Box 1490, Cumartunga
 Munidasa Mawatha, Colombo 3, Sri Lanka
 Tel : (01) 581835/ 584695/ 585509
 Telex : 22039
 Cable : UNIVERSITY, COLOMBO
 Fax : 01 - 583810
 2. Year of Establishment : 1979. Previously established as Ceylon University College (1921); University of Ceylon (1942); Colombo campus of the University of Sri Lanka (1972)
 3. Status : Autonomous body under the Ministry of Higher Education Government of Sri Lanka
 4. Head : Vice Chancellor - Prof G.L. Peiris
 5. Principal Units : Faculty of Science and five other faculties
 6. Degrees Offered : The Faculty of Science offers
 B.Sc.(Fisheries Biology) and
 M.Sc. (Fisheries)
 7. Academic Year : October - September (3 Terms)
 8. Manpower :
 9. Library : Books 70000
 Current Periodicals 900
 10. Publications : Faculty Handbooks
 Annual Report
 11. Budget :
-
1. Institution : **UNIVERSITY OF JAYWARDANEPURA (UJ)**
 Gangodawila, Nugegoda, Sri Lanka
 Tel : (055) 2695/ 2696/ 3191/ 3192
 Cable : UNISJAY, Sri Lanka
 Fax : 055 - 2604
 2. Year of Establishment : 1978. Established first as the Vidyodaya University of Ceylon (1959); then from 1972 as the Vidyodaya campus of University of Sri Lanka
 3. Status : Autonomous body under the Ministry of Higher Education, Government of Sri Lanka
 4. Head : Vice Chancellor - W.B. Dorakinbura
 5. Principal Units : Faculty of Applied Science and two other faculties
 6. Degrees Offered : The Faculty of Applied Science offers
 M.Sc. in Forestry
 7. Academic Year : October - September (3 Terms)
 8. Manpower :
 9. Library : Books 118000
 Current Periodicals 460
 10. Publications : Faculty Handbooks
 Annual Report
 11. Budget : Rs 69,423,125 (1991)

MALDIVE

Selected Indicators of Agricultural Development

Country	: Maldives
Total Area	:
Forest Coverage	: 3%
Annual Average Change (%) (For 1980-89)	: 0.0
Cultivated Area	:
Population	: 228,000
Annual Growth Rate of Population (1985-92)	: 3.3 %
Agricultural Population	:
Illiteracy Rate	: N.A
National GNP (1992)	: 114 million US \$
GNP Per Capita (1992)	: 500 US \$
GNP: Real Growth Rate (1985-92)	: 8.5 %
Share of Agriculture in GDP	:
Growth Rate of Agricultural Production	:
Agricultural Export as % of Total Export	:
Major Agricultural Commodities	:
Major Agricultural Imports	:
Major Agricultural Exports	:

Selected Indicators of Research

State of Agriculture and Research

The Republic of Maldives is an archipelago of nearly 1200 tiny coral islands in the Indian Ocean grouped together in clusters or Atolls. These Atolls form a long narrow chain strung over an area of about 106000 sq kms. The northern and southern tips are 820 kms apart. At its widest it measures 130 kms. The nearest landmass lies 400 kms away at Cape Camorin, India's southern extremity. The city of Colombo lies 640 eastwards across the Indian Ocean.

The northern and central Atolls form a narrow eclipse surrounding a strip of sea 16 to 40 kms wide. They rise from a common plateau and are separated from each other by deep channels most of which are easy to navigate. The southern Atolls are separated from the main body of the islands by two broad channels. Strong currents in both these channels make them a hazard to navigation. The enclosure reefs to each Atoll contain openings which provide passageways for boats travelling between the Atolls. Most islands are situated close to the Atoll reefs.

The islands vary in size from mere patches of coral or small sand banks to real islands, the largest of which, Gamu in Lammu Atoll is 7.2 kms long. Male, the capital city occupies an island barely 1.6 km long on the east side of the central Atoll Kaffu. The total land area is thought to be about 290 sq kms.

Because they are based on coral the islands are flat, the highest point being rarely more than 2 metres above sea level. The groundwater table is naturally high in all the islands. Several islands have freshwater lakes. All the older islands, where a layer soil has been formed on top of the coral base, are covered by tropical vegetation, typically coconut trees towering above dense scrub. Bread fruit trees and candanuss (screw pine) are widespread. Vegetation is more abundant in the southern Atolls where rainfall is heaviest, but agricultural potential is generally limited by the high

alkaline content of the soil, its poor water retention capacity and lack of nutrients.

Hot and humid, the south-west monsoon comes at the end of April with a steady westerly surface wind that continues until mid-August though it can be irregular. December to March is the driest season of the year when the north-east monsoon prevails. Rainfall at Male is about 2100 mm. The mean daily temperature varies little through the year averaging about 30 degrees celsius. Diagonal variations are only 2 to 3 degrees celcius. Humidity is high throughout the year. During the south-west monsoon it seldom drops below 80 per cent.

Only 202 of the 1200 islands are permanently inhabited. Of these 28 have fewer than 200 inhabitants. Only 19 islands have more than 1000 people. Some of the officially uninhabited islands are seasonally occupied by families engaged in the gathering and processing of coconuts, planting of coconut trees or occupied full time by tourist resorts. Agriculture does not form an important component of the economy of the country.

NEPAL

Selected Indicators of Agricultural Development

Country	: NEPAL
Total Area	: 13,680,000 Ha
Forest Coverage	: 18%
Annual Average Change (%) (For 1980-89)	: 0.0%
Cultivated Area	: 2,653,000 Ha
Population	: 19,143,000
Annual Growth Rate of Population	: 2.6%
Agricultural Population	: 92%
Illiteracy Rate	: 74%
National GNP	: 3,285 million US \$
GNP Per Capita	: 170 US \$
GNP: Real Growth Rate	: 2.1%
Share of Agriculture in GDP	: 52%
Growth Rate of Agricultural Production	:
Agricultural Export as % of Total Export	: 40%
Major Agricultural Commodities	: Cereals Potatoes, Vegetables, Milk and Milk Products, Livestock Forestry Products, Fishery
Major Agricultural Imports	: Vegetable oils, Cereals, Fishery Products, Dairy Products
Major Agricultural Exports	: Oilseeds, Vegetable oils, Sugarcane

Selected Indicators of Research

State of Agriculture and Research

Nepal is a land-locked country in the Himalayan mountains. It is roughly rectangular in shape with an average east-west length of 885 kms and an average north-south width of 193 kms. Within this narrow span of width the altitudes range from 60 meters to 8,000 meters above MSL and a variety of climates ranging from sub-tropical to alpine can be found. The major river systems originating in the Himalayas and running east-west act as physical barriers to transportation and communication. Physically the country can be divided into three distinct geographic regions running parallel east to west. Each region has its characteristic agro-ecological features.

The Mountain Region:

This is the northern most area lying in the Himalayan mountains with altitudes ranging from 3000 to 8848 meters. The region covers 35 % of the total land area of the country. 39% of the land here remains covered under perpetual snow above the permanent snowline at 4877 meters. About 9% of the country's population lives in this region. Agricultural activities are limited to a minimum tilling of land and raising of sheep, goat and yak. Access to the region is limited to walking trails and a number of high altitude grass landing strips.

Hill Region

This middle area is composed of two main hill ranges which enclose a large number of small valleys at various altitudes and many rivers and streams. Altitudes range from 300 to 3000 meters. The region covers 42% of the total land area and 48% of the total population. Agricultural activities are intensive and varied. Subsistence farming is predominant. The average operational holding ranges from 0.25 to 0.40 hectare. Many areas experience local food deficits but there is little intra-market exchange because of difficult topography and limited transportation facilities. New land available for cultivation is limited.

Tarai Region

This is the southern-most region of the country. It is the northern-most extension of the Indo-Gangetic plains. The altitudes range from 60 to 300 meters. It covers 23% of the total land area and contains 44% of the total population. With its fertile soil and relatively better developed infrastructure the Tarai is a major producer of grains, cash crops, tropical fruits and vegetables. However, because of limited transportation infrastructure in the hills and mountain regions there is little inter-change between the Tarai markets and the other two regions.

The greater part of surplus production in the Tarai Region normally flows across the border into India. With 693 persons per sq km of cultivated land Nepal has one of the highest population densities for cultivated land. Only 7% of the people live in urban areas. As a result of the population pressure in the hill region more and more marginal lands have been brought under cultivation; forests are being denuded and upland pastures are being overgrazed.

Land ownership in Nepal is highly skewed. 50.1% of the of the operational holding are less than 0.5 hectare while another 33.5% range between 0.5 to 2.0 heectare. Land fragmentation is a serious constraint to agricultural development, especially in the hill areas where individual fields may be more than half-a-day's walk from the farmstead across a vertical distance of 1500 meters. Tradional inheritance practices encourage land fragmentation and many of the holdings are no longer capable of producing surplus production for marketing, let alone providing the family with a year-round supply of food. Larger farms tend to be concentrated in the Tarai region where land is either hired out to share croppers or is farmed by employing agricultural labourers. Rice, maize and wheat are the most important cereal crops occupying about 53%, 23% and 18% of the cultivated area respectively. In the Tarai, rice and wheat account for 65% and 25% of the cultivated area respectively. In the hills, maize, rice and millets are the primary crops covering 38%, 28%, and 18% of the cultivated area respectively.

Productivity of all the crops except wheat, has been stagnant or declining. Even in case of wheat productivity has shown only minor growth. The potential for fruit and vegetable development is large but is yet to be fully exploited. Temperate fruits with good quality can be grown in the high hill areas. Citrus is common in the mid-hills and tropical fruits in the Tarai. Because of a wide range of climate, there is also a potential for the development of flowers and vegetable seed programmes. Lack of organised markets has limited the growth of the horticultural sector.

Livestock are an integral part of subsistence farming systems prevalent in the country. The average farm family in the hills maintains 3.7 cattle, 1.9 buffalo, 2.0 goats and 8.0 chicken. Straw yeilding qualities of the cereal crops is regarded as an important consideration in the adoption of new crop varities by the farmers.

Forests cover about 42% (?) of the total land area but commercial exploitation is low.

National Agricultural Research System

Government involvement in agricultural development started in 1924 when a Department of Agriculture was opened, a demonstartion farm at Singha Durbar in Kathmandu was established, and a fruit nursery at Godavery in nearby Lalitpur was started.

During the 1950's and early 60's a number of disciplinary divisions were established in Kathmandu and several agricultural research stations and farms were set up in various parts of the country. In 1965-66 an intensive coordinated agriculral deveopment programme was initiated with USAID assistance in 9 districts possessing high production potential. Village Cooperative socities were established to supply the necessary inputs and credits.

In 1966 the government created the Department of Agricultural Education and Research (DAER). Agricultural research station at Rampur, Janakpur, Bhairawa and Nepalganj in Tarai region were strengthened. Presently, the Ministry of Agriculture consists of the following five major units:

1. Department of Agriculture
2. Department of Livestock Development and Animal Health
3. Department of Food and Agricultural Marketing Services
4. Central Food Research Laboratory
5. National Agricultural Research and Services Centre (NARSC)

A Research Coordination Committee (RCC) oversees all agricultural research activities. The NARSC with the support of the RCC has the responsibility to carry out the development of appropriate technologies at the national level through the various National Commodity Development Programmes, and also at the site level through the Farming Systems Research and Development Division as well as the outreach programmes of the various agricultural farms and research stations. It has 18 disciplinary divisions, 10 national commodity programmes and 31 agricultural research stations and farms under its command. It has pooled together individual research libraries into a central National Research Library and Publishing Centre. It also provides a centre point for linkages with international agricultural research centres and foreign donors.

In 1985 all research activities related to agriculture were placed under a newly created National Agricultural Research and Services Centre (NARSC). Two autonomous, British government funded and managed agricultural research centers, Lumle and Pakhribas are also actively involved within the national agricultural research system. Both have been technically integrated within the NARSC and participate fully in all national programmes. In addition, the Institute of Agriculture and Animal Sciences and the Institute of Forestry, as part of the Tribhuvan University undertake agricultural research which is coordinated with the national programme through the Research Coordination Committee (RCC).

National extension activities are the responsibility of the Extension and Training Section of the Department of Agriculture. The section is headed by a Deputy Director General.

For administrative and developmental purposes the country has been divided into 75 districts grouped into 5 development regions. Each development region bisects the agro-ecological regions to ensure a regionally more balanced development effort. At the district level there is an agricultural development office headed by an Agricultural Development Officer with a staff of extension agents responsible for extension programmes within the district. In several districts where the T & V system has been introduced the Agricultural Development Officer is supported by two subject matter specialists as well as local farmers hired as agricultural assistants to work with contact farmers. In such districts agricultural service centres have been established which integrate the services of agricultural extension staff with those of the Forestry Department, Cooperatives, Agricultural Development Bank (ADB) and Livestock and Animal Health Department.

At the regional level an Agricultural Regional Directorate coordinates the programmes of district agricultural offices with agricultural research stations and farms, Cooperatives and the ADB.

Because of topographical features road construction is very expensive and post-construction maintenance is very difficult. Many of the districts are not properly linked. Lack of effective transport system has resulted in highly fragmented agricultural markets. Price distortions and reduced returns to farmers are common. Though the government has initiated a minimum price support policy, it has not been effective due to various reasons.

In the mountain region opportunities for agricultural development are limited but there is room for the development of livestock and horticultural activities. Research on high altitude varieties of livestock, namely yaks, mountain goats and horticultural crops need to be strengthened. In the hills lack of plant nutrients is a major constraint. Inadequate irrigation facilities and inadequate plant protection are also contributing factors. In the Tarai, delivery of inputs is insufficient and untimely. Extension services are inadequate and price incentives are lacking.

1. **NEPAL AGRICULTURAL RESEARCH COUNCIL (NARC)**

Khumaltar, Lalitpur, Nepal

Tel : (5) 23041/ 25703/ 25704/ 25708

Telex :

Cable :

2. 1985

3.

4. Executive Director

5.

6. Planning, Monitoring and Evaluation

Finance

Administration

Communication and Documentation

Central Library and National Agricultural Documentation Centre

Human Resource Development

Biometrics

Seed Science

Aquaculture

The NARC is the headquarters responsible for implementing agricultural research through central Disciplinary Divisions National Commodity Research Programs and Agricultural Research Stations.

7.

8. Books 6000

Current Periodicals 50

Audiovisual Equipment 3

Audiovisual Material 10

9. Research Highlights

Annual Report

10. Scientists 429

Technicians 714

11. Rs 126.6 million

1. **CENTRAL AGRONOMY DIVISION**

Khumaltar, Lalitpur, Nepal

Tel : (5) 21169

2. 1952

3. A division of the NARC

4. Chief Agronomist

5. Weed Science

Agro-meteorology

Cropping Systems

Rainfed Farming (dryland)

Environmental and Resource Conservation

6. None

7. N.A

8. Annual Report

9. Scientists 11 [B.Sc.-5; M.Sc.-5; Ph.D-1]

10. N.A

1. **CENTRAL ENTOMOLOGY DIVISION**

Khumaltar, Lalitpur, Nepal

Tel : (5) 21141

2. 1953

3. A division of the NARC

4. Chief Entomologist

5. Biological Control

Chemical Control

Toxicology

Insect/Pest Identification

Integrated Pest Management

6. None

7. N.A

8. Annual Report

9. Scientists 14 [B.Sc.-2; M.Sc.-11; Ph.D.-1]
10. Rs 2 million

1. **CENTRAL PLANT BREEDING AND BIOTECHNOLOGY DIVISION**

Khumaltar, Lalitpur, Nepal

Tel : (5) 21614/ 21615

2. 1966
3. A division of the NARC
4. Chief Agricultural Botanist
5. Plant Breeding
Plant Genetic Resources
6. None
7. N.A
8. Annual Report
9. Scientists 13 [B.Sc.-6; M.Sc.-6; Ph.D-1]
10. Rs 1.6 million

1. **CENTRAL PLANT PATHOLOGY DIVISION**

Khumaltar, Lalitpur, Nepal

Tel : (5) 21197/ 5-23143

2. 1959
3. A division of the NARC
4. Chief Plant Pathologist
5. Mycology
Virology
Bacteriology
Nematology
Seed Pathology
6. None
7. Books 1600
Current Periodicals 15
8. Annual Report
9. Scientists 18 [B.Sc.-2; M.Sc.-12; Ph.D-4]
10. Rs 3.5 million

1. **CENTRAL SEED SCIENCE AND TECHNOLOGY DIVISION**

Khumaltar, Lalitpur, Nepal

Tel :

2. 1982
3. A division of the NARC
4. Chief Seed Technologist
5. Seed Research
Seed Testing Lab (Central)
Seed Certification
6. None
7. N.A
8. N.A
9. Scientists 9 [B.Sc.-4; M.Sc.-5]
Technicians 7
10. Rs 1.15 million

1. **CENTRAL SOIL SCIENCE DIVISION**

Khumaltar, Lalitpur, Nepal

Tel :

2. 1957
3. A division of the NARC
4. Chief Soil Scientist
5. Plant Nutrition
Soil Survey
Soil Physics
Microbiology
6. None
7. Books 1250
Current Periodicals 15

8. Soil Survey Report
Annual Progress Report
9. Scientists 14
Technicians 14
10. Rs 1.78 million

1. CENTRAL AGRICULTURAL ENGINEERING DIVISION

- Khumaltar, Lalitpur, Nepal
Tel : (5) 24351/ 21307
2. 1954
 3. A division of the NARC
 4. Chief Agricultural Engineer
 5. Irrigation Management
Farm Implement Design and development
 6. None
 7. N.A
 8. Annual Report
 9. Scientists 10 [B.Sc.-6; M.Sc.-4]
 10. Rs 1.2 million

1. CENTRAL ANIMAL BREEDING DIVISION

- Khumaltar, Lalitpur, Nepal
Tel : (5) 23160
2. 1961
 3. A division of the NARC
 4. Chief Livestock Development Officer
 5. Animal Breeding
Artificial Insemination
 6. None
 7. N.A
 8. Annual Report
 9. Scientists 4 [B.Sc.-1; M.Sc.-3]
 10. Rs 1.2 million

1. CENTRAL ANIMAL DISEASE RESEARCH DIVISION

- Tripureswor, Kathmandu, Nepal
Tel : (2) 16832
2. 1987
 3. A division of the NARC
 4. Divisional Chief
 5. Epidemiology
Pathology
Parasitology
Bacteriology and Mycology
Virology
 6. None
 7. N.A
 8. Annual Report
 9. Scientists 5 [B.Sc.-1; M.Sc.-3; Ph.D-1]
 10. Rs 1.9 million

1. CENTRAL ANIMAL NUTRITION DIVISION

- Khumaltar, Lalitpur, Nepal
Tel : (5) 21650
2. 1981
 3. A division of the NARC
 4. Chief Nutritionist
 5. Chemical Analysis
Digestibility
Feed Requirements
 6. None
 7. N.A
 8. Annual Report
 9. Scientists 4 [B.Sc.-3; M.Sc.-1]

10. Rs 0.7 million

1. CENTRAL SOCIO-ECONOMIC RESEARCH DIVISION

Khumaltar, Lalitpur, Nepal

Tel : (5) 25703

2. 1985
3. A division of the NARC
4. Chief
5. Social Science
Agricultural Economics
6. None
7. N.A
8. Annual Report
9. Scientists 6 [B.Sc.-4; M.Sc.-1; Ph.D-1]
10. N.A

1. CENTRAL FARMING SYSTEM AND OUTREACH RESEARCH DIVISION

Khumaltar, Lalitpur, Nepal

Tel : (5) 24040

2. 1987
3. A division of the NARC
4. Chief
5. Agronomy
Livestock/Agroforestry
6. None
7. N.A
8. Annual Report
9. Scientists 13 [B.Sc.-5; M.Sc.-8]
10. N.A

1. NATIONAL GRAIN LEGUMES RESEARCH PROGRAMME

Rampur, Chitwan, Nepal

Tel :

2. 1985
3. A division of the NARC
4. Grain Legumes Coordinator
5. Plant Breeding and Varietal Improvement
Agronomy
Plant Pathology
Entomology
Soil Fertility
6. None
7. N.A
8. Annual Report
9. Scientists 7 [B.Sc.-5; M.Sc.-2]
10. Rs 1.7 million

1. RESEARCH LABORATORY FOR AGRICULTURAL

BIOTECHNOLOGY AND BIOCHEMISTRY

P.O.Box 2128, Kathmandu, Nepal

Tel : (977) 1-522900

Telex : 2492 NP

Fax : 977 - 1 - 526318

2. 1986
3. A division of the NARC
4. N.A
5. Tissue Culture
Rice Biotechnology
Plant Microbiological Interaction
Biochemistry
6. None
7. Books 150
Current Periodicals 3
8. N.A

9. Scientists 18
Technicians 1
10. N.A

RESEARCH PROGRAMMES UNDER THE NARC

1. **NATIONAL HILL CROPS RESEARCH PROGRAMME**
Kabre, Dholakha, Nepal
Tel :
2. **NEPAL MAIZE RESEARCH PROGRAMME**
Rampur, Chitwan, Nepal
Tel :
3. **NATIONAL OILSEEDS RESEARCH PROGRAMME**
Nawalpur, Sarlahi, Nepal
Tel :
4. **NATIONAL RICE RESEARCH PROGRAMME**
Parwanipur, Birgunj, Nepal
Tel : (051) 21460
5. **NATIONAL SUGARCANE RESEARCH PROGRAMME**
Jitpur, Bara, Nepal
Tel : (053) 20171
6. **NATIONAL TOBACCO RESEARCH PROGRAMME**
Belachapi, Dhanusha, Nepal
Tel :
7. **NATIONAL WHEAT RESEARCH PROGRAMME**
Rupandhehi, Bhairahawa, Nepal
Tel : (071) 20226/ 20431
8. **NATIONAL HORTICULTURE RESEARCH PROGRAMME**
Kirtipur, Kathmandu, Nepal
Tel : (2) 11549
9. **NATIONAL POTATO RESEARCH PROGRAMME**
Khumaltar, Lalitpur, Nepal
Tel : (5) 22114
10. **NATIONAL TEMEPERATE HORTICULTURE RESEARCH PROGRAMME**
Marpha, Mustang, Nepal
Tel :
11. **NATIONAL PASTURE AND FODDER RESEARCH PROGRAMME**
Khumaltar, Lalitpur, Nepal
Tel : (5) 23038
12. **NATIONAL AVIAN AND SWINE RESEARCH PROGRAMME**
Khumaltar, Lalitpur
Tel : (5) 21110
13. **NATIONAL BOVINE RESEARCH PROGRAMME**
Khumaltar, Lalitpur, Nepal
Tel : (5) 21423
14. **NATIONAL SHEEP AND GOAT RESEARCH PROGRAMME**
Guthichaur, Jumla, Nepal
Tel :
15. **NATIONAL AQUACULTURE RESEARCH PROGRAMME**
Janakpur, Dhanusha, Nepal
Tel : (041) 20156/ 20396

LIST OF RESEARCH STATIONS UNDER NARC

1. **AGRICULTURAL RESEARCH STATION**
Doti, Dipayal, Nepal
Tel : (094) 40111 Extn 162
2. **AGRICULTURAL RESEARCH STATION**
Tarahara, Sunsari, Nepal
Tel : (025) 80462
3. **AGRICULTURAL RESEARCH STATION**

Jumla, Nepal

Tel :

4. **AGRICULTURAL RESEARCH STATION**

Khajura, Nepalganj, Nepal

Tel :

5. **AGRICULTURAL RESEARCH STATION**

Dashrathpur, Surkhet, Nepal

Tel :

6. **AGRICULTURAL RESEARCH STATION**

Rampur, Chitwan, Nepal

Tel :

7. **GOAT RESEARCH STATION**

Bandipur, Tanahu, Nepal

Tel :

8. **FISHERY DEVELOPMENT RESEARCH STATION**

Trisuli, Nuwakot, Nepal

Tel : (010) 60226

9. **FISHERY RESEARCH STATION**

Pokhara, Kaski, Nepal

1. Institution : **TRIBHUVAN UNIVERSITY**

P.O.Box 3757, Kathmandu, Nepal

Tel : (2) 11842

2. Year of Establishment: 1958; set up as a teaching and affiliating university; reorganised in 1971

3. Status : Autonomous body under the Ministry of Education, Government of Nepal

4. Head : Vice Chancellor - Prof B.C.Malla

5. Principal Units : Institute of Agriculture and Animal Sciences
Institute of Forestry

There are five other faculties, two other institutes and four research centres.

In addition there are 67 campuses of the university and about 90 other private campuses under the university

6. Degrees Offered : B.Sc.Ag; B.Sc.Animal Husbandry
M.Sc.Ag; M.Sc.Animal Husbandry
Ph.D

7. Academic Year : July - June

8. Library : Books 162923
Current Periodicals 11322
National Depository for UN, UNCRD Japan,
WFS Netherland, CSIRO Australia, World Bank

9. Publications : TU Bulletin
Journals of the various institutes

10. Manpower : Teachers 4300

11. Budget :

PAKISTAN

Selected Indicators of Agricultural Development

Country	: PAKISTAN
Total Area	: 77,088,000 Ha
Forest Coverage (%)	: 5%
Annual Average Change (%) (For 1980-89)	: 1.7%
Cultivated Area	: 20,610,000
Population	: 122,626,000
Annual Growth Rate of Population	: 3.8%
Agricultural Population	: 53%
Illiteracy Rate	: 65%
National GNP	: 49,477 million US \$
GNP Per Capita	: 410 US \$
GNP: Real Growth Rate (per capita)	: 1.7%
Share of Agriculture in GDP	: 24%
Growth Rate of Agricultural Production	:
Agricultural Export as % of Total Export	: 32%
Major Agricultural Commodities	: Cereals, Milk, Meat, Pulses Root Crops, Oil Crops
Major Agricultural Imports	: Cereals, Vegetable Oils, Forestry Products, Oil Seeds
Major Agricultural Exports	: Cereals, Cotton Lint

Selected Indicators of Research

State of Agriculture and Reserch

Pakistan has large areas of fertile soils ,suitable topography, favourable climatic conditions, and water wealth harnessed into a well-organised system that permits the production of a variety of food feed, and fibre crops. The Indus basin is one of the world's largest natural resources, capable of producing about 100 million tonnes of foodgrains annually, but it barely produces a third of its potential. The country has been delineated into 10 agro-ecological regions:

- 1-Indus Delta
- 2-Southern Irrigated Plain
- 3-Sandy Desert(a&b)
- 4-Northern Irrigated plain(a&b)
- 5-Barani Lands
- 6-Wet Mountains
- 7-Northern Dry Mountains
- 8-Western Dry Mountains
- 9-Dry Western Plateau
- 10-Sulaiman Piedmont

Out of a total geographic area of 79.6 million hactares the cultivated area (1982-83) is 31.3 million hactare but only 20.4 million hactares are actually cultivated. Aconsiderable part of the remaining 10.9 million hactares could be developed for cultivation, if additional irrigation water becomes available.

The national average yields of major crops are far below the demonstrated production potentials. There is a wide gap (50-80%) in yields obtained at experiment stations using a complete package of improved technology and that of average farmers using traditional farming methods.

Pakistan is the home of some of the finest breeds of livestock having considerable scope for improving production. The country has vast inland and marine fisheries resources with enormous scope for further development.

However, despite the potential, the country is not producing enough of

several commodities (animal proteins, edible oils, dairy products, timber) to meet even the basic needs of the population.

The sixth 5-yr plan focussed on attaining greater self-sufficiency in agriculture. The major components of the strategy were diversification of crops, increasing productivity particularly of small farmers, strengthening production and distribution, adoption of better agronomic practices, modernisation of agriculture, control of water-logging and salinity, enhancing water availability at the farm gate, with research facilities to be expanded accordingly.

The sixth five year plan failed to achieve the anticipated diversification towards high value crops and production of non-traditional oilseeds. In the seventh plan again it has been fully recognised that research, particularly in the evolution of high yielding varieties, plays an important role in the development of agriculture.

Prior to independence in 1947 agricultural research in Pakistan was centred in the agricultural college and research institute at Lyallpur (now Faisalabad). The Pakistan Agricultural Research Council (PARC) had its origin in the bifurcation of the Imperial Council of Agricultural Research in 1947. Initially, PARC had very limited resources, authority and responsibility until the 1970's. The first Director General of PARC was appointed in July 1972. The National Agricultural Research Centre (NARC) was established at Islamabad in 1978.

The Atomic Energy Agency of Pakistan had established the Nuclear Institutes of Biology in Punjab, Sindh and NWFP adjacent to the provincial agricultural research institutes. These nuclear institutes have been relatively well-supported by the Central Atomic Energy Agency. Their research programmes have extended beyond work with radiation and radio isotope tracers. Some of them appear to duplicate much of the work of the provincial agricultural research institutes, particularly in the area of crop breeding.

The Water and Power Development Authority (WAPDA) has done considerable research on the problems of on-farm distribution and use of irrigation water in the various irrigation systems.

There is a University Grants Commission (UGC) which assists all the universities in the country including agricultural universities, in formulating their basic budgets (salaries, capital development, maintenance and communications etc). These budgets are channeled through the central government via the Ministry of Education. The funds as approved and earmarked for each university are in turn provided by the UGC direct to the universities and do not go through the provincial government departments. In these budgets no specific amounts are provided for agricultural research although this element may be considered in framing the estimated requirements in the budget. The UGC also has some extra-fund provision to support proposals from the universities for travel grants.

The Central Cotton Committee (CCC) supports research on cotton production and varietal development at research stations at Multan and Sakrand, and on fibre technology at a laboratory in Karachi. Punjab province also has a cotton research station at Multan adjacent to the Central station of the CCC.

All the four provinces of Pakistan also have research institutes supported and directed through the provincial ministries of agriculture. Some of the major research programmes in the Punjab province seem to have been provided reasonable operating funds. In other provinces funds provided in the non-development budget for operations including seasonal labour, supplies, vehicle repair, fuel and minor equipment are so meagre as to preclude effective functioning of an active field research programme. Equipment repair/replacement funds are also inadequate. Presently, few research budgets contain even 25% for operations. In some cases it is even less than 10%. Having 50% of the total budget as operations excluding capital would be a useful guideline.

Personnel policies based on civil service rules are inappropriate for management of research personnel.

At present there are three agricultural universities in Pakistan,

namely, University of Agriculture, Faisalabad (1961); Sindh Agricultural University, Tandojam (1977) and the NWFP Agricultural University, Peshawar (1981). Several general universities also have a faculty of agriculture or allied sciences. Each university is an autonomous body with their basic financial support derived from the central government through the Ministry of Education and the UGC. The mission of the agricultural universities as well as of the agricultural faculties of general universities is considered by many to be solely academic instruction. A few faculty members obtain research grants from external sources and the post-graduate students produce thesis with limited research components. The universities, however, in general do not have funds or allocation of staff time for research as a recognized part of their basic mandate. The universities generally do not recognize any serious responsibility for agricultural improvement in their respective provinces. They, therefore, tend to become isolated enclaves separated from the mainstream of agricultural development. This in turn denies them adequate opportunity for the context and involvement that are necessary to facilitate keeping update on advances in agricultural sciences and the corresponding regular revision and updating of syllabi and the content of their teaching programmes. Overall, the present situation inevitably results in gross under-utilization of the large pool of scientific talent of the faculty members and the graduate students.

1. PAKISTAN AGRICULTURAL RESEARCH COUNCIL (PARC)

Plot No. 20, G-5/1, P.O.Box 1031, Islamabad, Pakistan

Tel : 819051-70

Telex : 5604 PARC PK

Cable : AGRESCOUNCIL

Fax : 051 812968

2. 1979

3. A semi-autonomous body under the Ministry of Food, Agriculture and Livestock, Government of Pakistan

4. Chairman

5. Crop Sciences

Natural Resources

Animal Sciences

Social Sciences

Support Services

6. None

7. Books 40000

Current Periodicals 99

Microforms 1200

Audiovisual Material 35 Video cassettes; 2 laser discs

8. Pakistan Journal of Agricultural Research

Pakistan Journal of Agricultural Social Sciences

PARC News

Progressive Farming

PARC Activities Bulletin

PARC Annual Report

9. Scientists 790 [B.Sc.-276; M.Sc.-405; Ph.D.-109]

10. Rs 257.25 million

1. NATIONAL AGRICULTURAL RESEARCH CENTRE (NARC)

Park Road, P.O. Nih, Islamabad, Pakistan

Tel : 240794

Telex : 5604 PARC PK

Cable : AGRESCOUNCIL

Fax : 9251 - 81268

2. 1978

3. Autonomous body under the PARC

4. Dr Munawar Ahmad Sial

5. Crop Sciences

Animal Sciences

Range Research

Honeybee Research

Water Resources
Land Resources
Social Sciences
Farm Machinery
Training
Central Laboratories and General Administration

- 6.
7. yes
8. Journals, annual reports and newsletters
9. 331 Researchers
10. N.A

1. **AGRICULTURAL RESEARCH INSTITUTE**

Tarnab, Peshawar, NWFP, Pakistan
Tel : 64304
Telex :
Cable : AGRI; RESEARCH PESHAWAR

2. 1908
3. Ministry of Agriculture, Government of NWFP, Peshawar
4. Abdul Rauf Khattak
5. Soil Nutrition
Oilseed
Horticulture (FATA)
Agricultural Chemistry
Plant Pathology
Plant Physiology
Entomology
Food Technology
Agronomy
Vegetable Botany and Statistical Section

- 6.
7. yes
8. Journals, Annual Reports, Newsletters
9. Researchers 97
10. N.A

1. **KARAKORUM AGRICULTURAL RESEARCH INSTITUTE FOR NORTHERN AREAS (KARINA)**

Juglote, Gilgit, Pakistan
Tel : 50
Telex :
Cable :

2. 1984
- 3.
4. Director
5. Horticulture
Agronomy
- 6.
- 7.
- 8.
9. Scientists 3
Technicians 5
10. Rs 1.0 million

1. **NUCLEAR INSTITUTE FOR AGRICULTURE AND BIOLOGY (NIAB)**

P.O.Box 128, Jhang Road, Faisalabad, Punjab, Pakistan
Tel : 24210/ 28930/ 619726-30
Telex :
Cable : NIAB

2. 1972
- 3.
4. Director
5. Mutation Breeding
Biological Chemistry
Soil Biology

Entomology
Biochemistry and Natural Product
Technical Services

- 6.
7. Books 5740
Current Periodicals 96
- 8.
9. Scientists 132
Technicians 88
10. Rs 26.73 million

1. **NUCLEAR INSTITUTE FOR FOOD AND AGRICULTURE (NIFA)**
Tarnab, P.O. Box 446, Peshawar, NWFP, Pakistan
2. 1982
3. Autonomous body under the Ministry of Science and
Technology, Islamabad, Pakistan
4. Dr Mohsin Muhammad Iqbal
5. Nuclear Agriculture
Food Science
- 6.
7. Yes
8. Journals, Annual Reports and Newsletters
9. Researchers 39
Technicians 22
10. N.A

1. **PAKISTAN CENTRAL COTTON COMMITTEE (PCCC)**
Moulvi Tamizuddin Khan Road, Karachi, Pakistan
Tel : 524104-6
Telex : 25992 RUPAK
Cable : RUIPAK
Fax : 09221 - 515682
2. 1948
- 3.
4. Vice President
5. Research Institutes at Karachi, Sakrand and Multan
Research Stations at Sahiwal, Ghotki, Bhawalpur,
Multan and Dera Ismail Khan
- 6.
7. Books 9502
Current Oeriodicals 86
8. World Markets Review
The Pakistan Cottons
Annual Report
9. Scientists 234 [B.Sc.-50; M.Sc.-176; Ph.D.-8]
10. Rs 39.24 million

1. **AGRICULTURAL RESEARCH INSTITUTE (ARI)**
Ratta Kulachi, Dera Ismail Khan, NWFP, Paakistan
Tel : 3769
Telex :
Cable :
2. 1962
- 3.
4. Director
5. Agronomy
Soil Science
Food Technology
Plant Pathology
Entomology
Horticulture
Oilseed
Millet
Wheat

Rice

Cropping Pattern Research Sections

- 6.
7. Books 1598
Current Periodicals 12
8. Annual Progress Report
9. Scientists 47 [B.Sc.-4; M.Sc.-41; Ph.D.-2]
11. Rs 7.54 million

1. **AYUB AGRICULTURAL RESEARCH INSTITUTE (AARI)**

Jhang Road, Faisalabad, Pakistan

Tel : 24359/ 30548

Telex :

Cable :

2. 1962
- 3.
4. Director General
5. Agronomic Research Institute, Faisalabad Wheat Research Institute, Faisalabad Vegetable Research Institute, Faisalabad Sugarcane Research Institute, Faisalabad Cotton Research Institute, Faisalabad Oilseeds Research Institute, Faisalabad Pulses Research Institute, Faisalabad Horticultural Research Institute, Faisalabad Postharvest Research Institute, Faisalabad Agricultural Biotechnology Research Institute, Faisalabad Fodder Research Institute, Sargodha Maize and Millets Research Institute, Yusufwala Barani Agricultural Research Institute, Chakwal Soil and Water Conservation Institute, Chakwal Rice Research Institute, Kala Shah Kaku Soil Salinity Research Institute, Pindi Phattiyan Regional Agricultural Research Institute, Bahawalpur Rapid Soil Fertility Survey and Soil Testing Institute, Lahore
- 6.
7. Books 15701
Current Periodicals 888
Microforms 7659
Audiovisual Material 2
- 8.
9. Scientists 720 [B.Sc.-118; M.Sc.-576; Ph.D.-26]
10. Rs 116.04 Million

1. **BARANI AGRICULTURAL RESEARCH INSTITUTE (BARI)**

G.P.O.Box 35, Chakwal 48800, Punjab, Pakistan

Tel : (0573)-2797

Telex :

Cable :

2. 1979
- 3.
4. Director
5. Crop Breeding
Soil Science and Conservation
Agronomy
Plant Protection
Horticulture
Agricultural Engineering and Food Technology
Horticulture
- 6.
7. Books 530
- 8.
9. Scientists 81 [B.Sc.-40; M.Sc.40; Ph.D.-1]
10. Rs 6.43 million

1. **CEREAL CROPS RESEARCH INSTITUTE (CCRI)**

Pirsabak, Nowshera, NWFP, Pakistan

Tel : (05231) 2521

Telex :

Cable :

2. 1980
- 3.
4. Director
5. Plant Breeding and Genetics
 - Agronomy
 - Entomology
 - Pathology
 - Statistics and Computer
 - Agricultural Economy
 - Agricultural Engineering
 - Agricultural Chemistry
- 6.
7. Books 200
 - Audiovisual Material 50
- 8.
9. Scientists 32 [B.Sc.-4; M.Sc.-26; Ph.D.-2]
10. Rs 5.38 million

1. **MAIZE AND MILLETS RESEARCH INSTITUTE (MMRI)**

Yusafwala, Sahiwal, Punjab, Pakistan

Tel : 75710

Telex :

Cable :

2. 1969
- 3.
4. Director
5. Breeding
 - Agronomy
 - Plant Protection
- 6.
7. Books 70
 - Current Periodicals 141
 - Microforms 7500 ???
- 8.
9. Scientists 43
 - Technicians 3
10. Rs 7.74 million

1. **NATIONAL NEMATOLOGICAL RESEARCH CENTRE (NNRC)**

University of Karachi, Karachi 75270, Pakistan

Tel : 479001-6/ 2275

Telex :

Cable :

2. 1976
- 3.
4. Director
5. Taxonomy and Systematics
 - Chemical and Biocontrol
6. Ph.D. in Nematology
7. Books 500
8. Pakistan Journal of Nematology
9. Scientists 7 [M.Sc.-4; Ph.D-3]
10. Rs 0.35 million

1. **NATIONAL TEA RESEARCH STATION (NTRS)**

Shinkhari, Mansehra, NWFP, Pakistan

Tel : 2795

Telex :

Cable :

2. 1989
- 3.
4. Project Director
5. Soil Science
 - Entomology

Agronomy/Horticulture

- 6.
 - 7.
 - 8.
 9. Scientists 5 [M.Sc.-4; Ph.D.-1]
 10. Rs 1.60 million
-
1. **PLANT PROTECTION INSTITUTE (PPI)**
Directorate of Plant Protection Institute
Faisalabad, Punjab, Pakistan
Tel : 26324
Telex :
Cable :
 2. 1070
 - 3.
 4. Director
 5. Pesticides
Pest Management
Pest Control Training
Bee Keeping and Hill Fruit Pests Research Station, Rawalpindi
 - 6.
 7. Books 388
Current Periodicals 102
 - 8.
 9. Scientists 38 [B.Sc.-1; M.Sc.-35; Ph.D -2]
 10. Rs 8.03 million
-
1. **DEPARTMENT OF PLANT PROTECTION**
Jinnah Avenue, Malir Halt, Karachi 75100, Pakistan
Tel : 430111
Telex : 24057DPPKR PK
Cable : LOCUSWAR
Fax :
 2. 1947
 3. Department or division within an Institution. Under the
Ministry of Food, Agriculture and Cooperatives, Islamabad, Pakistan
 4. Dr Muhammad Shafi
 - 5.
 - 6.
 - 7.
 - 8.
 9. Researchers 45
 10. N.A
-
1. **TROPICAL AGRICULTURAL RESEARCH INSTITUTE (TARI)**
Old Block 9 & 10, Karachi University Campus
P.O.Box 8401, Karachi, Pakistan
Tel : 470809
Telex :
Cable : AGRESCOUNCIL
 2. 1954
 3. Autonomous body under the Pakistan Agricultural
Research Council, Islamabad, Pakistan
 4. Dr M.M.H Baig
 5. Pesticide Research Lab
Grain Storage Research Lab
Vertebrate Pest Control Research Lab
Locust and Grass Hoppers Research Lab
 - 6.
 7. Yes
 8. Journals, Annual Reports, Newsletters
 9. Researchers 44
Technicians 144
 10. N.A

1. **PULSES RESEARCH INSTITUTE (PRI)**
 Ayub Agricultural Research Institute
 Faisalabad, Punjab, Pakistan
 Tel : 32633/ 33119
 Telex :
 Cable :
2. 1982
- 3.
4. Director
5. Plant Breeding
 Plant Pathology
 Entomology
 Soil Bacteriology
 Agronomy
- 6.
7. Books 50
- 8.
9. Scientists 34 [B.Sc.-1; M.Sc.-31; Ph.D.-2]
10. Rs 4.55 million

1. **RICE RESEARCH INSTITUTE (RRI)**

Dokri, Larkana, Sindh, Punjab
 Tel : Dokri-5, Larkana-60877
 Telex :
 Cable :

2. 1973
- 3.
4. Director
5. Rice Breeding
 Agronomy
 Soil Science
 Plant Protection
 Economics
 Statistics
 Communication
 Milling and Store
 Plant Physiology
- 6.
7. Books 3268
 Current Periodicals 45
- 8.
9. Scientists 84
 Technicians 13
10. Rs 7.27 million

1. **RICE RESEARCH INSTITUTE (RRI)**

Kala Shah Kaku, Lahore, Punjab, Pakistan
 Tel : 700368/ 700845
 Telex :
 Cable :

2. 1970
- 3.
4. Director
5. Breeding
 Agronomy
 Soil Science
 Entomology
 Plant Pathology
 Rice Technology
 Agricultural Engineering
 Statistics
- 6.
7. Books 1000

- 8.
9. Scientists 39
Technicians 15
10. Rs 5.06 million

1. **AGRICULTURAL RESEARCH INSTITUTE**

Tandojam, Hyderabad, Sindh, Pakistan

Tel : 421

Telex :

Cable :

2. 1926
3. Department or Division within an Institution under the Agriculture and Wildlife Department, Government of Sindh Karachi, Pakistan
4. Dr K.K. Baloch
5. Agronomy
Plant Physiology
Agricultural Chemistry (Soils)
Agricultural Chemistry (S.F)
Soil Fertility
Cotton
Sugar
Entomology
Statistics
Plant Pathology
- 6.
7. Yes
8. Journals, Annual Reports and Newsletter
9. Scientists 201
Technicians 663
10. N.A

1. **AGRICULTURAL RESEARCH STATION**

Mingora, Swat, Peshawar, Pakistan

Tel : 2284

Telex :

Cable :

2. 1980
3. Department or Division within an institution; under the Agriculture Department, Government of NWFP, Peshawar, Pakistan
4. Mohibullah Khan
5. Horticulture
Vegetable Botany
Rice Botany
Potato Botany
Food Technology
Plant Pathology
Entomology
- 6.
7. N.A
8. Newsletters
9. Scientists 31
10. N.A

1. **AGRICULTURAL RESEARCH STATION**

Dhodial, Mansehra, NWFP, Pakistan

Tel : 42

Telex :

Cable :

2. 1990
3. Department or Division within an institution; under the Department of Agriculture, Government of NWFP, Peshawar, Pakistan.
4. Gulfam Khan
5. Economic Botany

Cereal Botany
Agricultural Chemistry
Horticulture
Maize Botany
Plant Pathology
Entomology

- 6.
7. N.A.
8. Journals and Newsletters
9. Scientists 4
Technicians 8
10. N.A

1. AGRICULTURAL RESEARCH INSTITUTE

Sariab, Quetta, Balochistan, Pakistan
Tel : 43581
Telex :
Cable :

2. 1070
3. Department or Division within an institution; under the Agriculture Department, Government of Balochistan, Quetta, Pakistan
4. Dr Abdul Hameed Bajoi
- 5.
- 6.
- 8.
9. Newsletters
10. Scientists 47
10. N.A

1. SOUTHERN ZONE AGRICULTURAL RESEARCH INSTITUTE (SZARI)

House No. 10-B, Hashimabad Housing Society, Makli,
District Thatta, Sindh, Pakistan
Tel : (029) 524
Telex :
Cable :

2. 1987
3. Autonomous body under the Pakistan Agricultural Research Council, Islamabad, Pakistan
4. Dr Haji Khan Keerio
5. Plant Introduction Centre
- 6.
- 7.
8. Newsletters
9. Scientists 4
Technicians 3
10. N.A

1. SUGAR CROPS RESEARCH INSTITUTE (SCRI)

Mardan, NWFP, Pakistan
Tel : (0531) 62170
Telex :
Cable :

2. 1951
- 3.
4. Director
5. Sugarcane Agronomy
Sugarcane Botany
Sugarbeet Agronomy
Sugarbeet Botany
Sugar Crops Chemistry
Sugar Crops Entomology
Sugar Crops Pathology
- 6.
7. Books 160

Current Periodicals 415

Audiovisual Material

8.

9. Scientists 19 [B.Sc.-1; M.Sc.-17; Ph.D.-1]

10. Rs 3.20 million

1. **SUGARCANE RESEARCH INSTITUTE (SRI)**

Ayub Agricultural Research Institute

Faisalabad, Punjab, Pakistan

Tel : 27817/ 610245/ 34879

Telex :

Cable :

2. 1978

3.

4. Director

5. Sugarcane Section, Faisalabad

Pakistan Sugarcane Agronomists' Office, Faisalabad

Sugarcane Research Station, Khanpur

6.

7. Books 345

Current Periodicals 4

8.

9. Scientists 35

Technicians 22

10. Rs 5.67 million

1. **WHEAT RESEARCH INSTITUTE (WRI)**

Faisalabad, Punjab, Pakistan

Tel : 31529

Telex :

Cable :

2. 1975

3.

4. Director

5.

6.

7. Books 131

8.

9. Scientists 36

Technicians 1

10. Rs 5.13 million (1990-91)

1. **WHEAT RESEARCH INSTITUTE (WRI)**

Tandojam, Sindh, Pakistan

Tel : 236

Telex :

Cable :

2. 1986

3.

4. Director

5. Wheat Breeding

Barley Breeding

Agronomy

Pathology

Entomology

Chemistry

Statistics and Communication

6.

7. Book 325

8.

9. Scientists 28 [B.Sc.-5; M.Sc.-23]

10. Rs 1.63 million

1. **POTATO RESEARCH CENTRE**

P.O. Mirpur, Abbottabad, NWFP, Pakistan

Tel : 4573

Telex :

Cable :

2. 1978

3.

4. Project Director

5.

6.

7.

8.

9. Scientists 10 [B.Sc.-1; M.Sc.-9]

10. Rs 2.3 million

1. **SINDH HORTICULTURAL RESEARCH INSTITUTE (SHRI)**

Mirpurkhas, Sindh, Pakistan

Tel : 2417

Telex :

Cable :

2. 1985

3. Department or Division within an Institution; under the
Agriculture Department, Government of Sindh, Karachi, Pakistan.

4. Syed Javed Iqbal Bukhari

5. Statistics

Soil Science

Entomology

Plant Pathology

Post Harvest Technology

Horticulture

6.

7. Yes

8. Journals, Annual Reports, Newsletters

9. Scientists 73

10.

1. **VEGETABLE RESEARCH INSTITUTE (VRI)**

Faisalabad 38950, Punjab, Pakistan

Tel : (0411) 32518

Telex :

Cable :

2. 1976

3.

4. Director

5. Vegetable Research Section, Faisalabad Ginger Research Section, Faisalabas
Vegetable HSP Section, Faisalabad Potato Research Section, Sialkot

6.

7. Books 74

8.

9. Scientists 33 [B.Sc.Ag-2; M.Sc.-30; Ph.D-1]

Technicians 30

10. Rs 5.87 million

1. **FODDER RESEARCH INSTITUTE (FRI)**

Post Box No. 43, Sargodha, Punjab, Pakistan

Tel : 65653

Telex :

Cable :

2. 1981

3.

4. Director

5. Plant Breeding

Soil Science

Plant Pathology
Entomology

- 6.
 7. Books 148
Current Periodicals 636
 - 8.
 9. Scientists 49
Technicians 1
 10. Rs 9.32 million
1. **SOIL FERTILITY SURVEY AND SOIL TESTING INSTITUTE (SFSSTI)**
24-A, Ferozepur Road, Lahore, Punjab, Pakistan
Tel : (042) 489067/ 489535
Telex :
Cable :
 2. 1962
 - 3.
 4. Director
 5. Field Wing
Laboratory Wing
 - 6.
 7. Books 481
Current Periodicals 10
 8. Annual Report of Soil Fertility Investigations in Farmer's Fields
Annual Report of Advisory Service
 9. Scientists 165 [B.Sc.-1; M.Sc.-163; Ph.D.-1]
 10. Rs 14.48 million
1. **AGRICULTURAL MECHANIZATION RESEARCH INSTITUTE (AMRI)**
P.O.Box 416, Multan, Punjab, Pakistan
Tel : (061) 32131/ 72207
Telex :
Cable : AMRI Pakistan
 2. 1978
 - 3.
 4. Director
 5. Design and Development
Test and Trial
Fabrication and Workshop
Industrial Research and Extension
Agronomy and Services
Research
 - 6.
 7. Books 1031
 - 8.
 9. Scientists 25
Technicians 3
 10. Rs 6.98 million
1. **COTTON RESEARCH INSTITUTE (CRI)**
Tel : (02234) 456
 2. 1976
 3. Autonomous body under the Ministry of Food, Agriculture and Cooperatives, Islamabad, Pakistan.
 4. Asghar Mohammad Khan
 5. Plant Breeding
Plant Genetics
Cytogenetics
Entomology
Agronomy
Plant Pathology
Plant Physiology

- 6.
 7. Yes
 8. Journals, Annual Reports, Newsletters
 9. Researchers 35
Technicians 80
 - 10.
1. **PAKISTAN INSTITUTE OF COTTON RESEARCH AND TECHNOLOGY (PICRT)**
Moulvi Tamizuddin Khan Road, Karachi, Pakistan
Tel : 5682228
Telex : 25992 RUPAK
Cable : RUIPAK
Fax : 21992
 2. 1955
 3. Autonomous body under the Ministry of Food, Agriculture and Cooperatives, Islamabad, Pakistan
 4. I.H.Reshamwala
 5. Textile Physics
Testing
Textile Chemistry, X-Ray and Microscopy
Cotton Seed
Quality Survey
Electronic Maintenance
Spinning
 - 6.
 7. Yes
 8. Journals and Newsletters
 9. Researchers 25
Technicians 62
 - 10.
1. **PAKISTAN TOBACCO BOARD (PTB)**
P.O.Box 188, Peshawar Cantt, NWFP, Pakistan
Tel : 812 435/ 812491
Telex :
Cable : PEETEEBEE
 2. 1968
 - 3.
 4. Chairman
 5. General Administration
Finance and Planning
Research and Development
Marketing and Statistics
 - 6.
 7. Books 700
Current Periodicals 100
 8. Pak Tobacco Journal
 9. Scientists 51
Technicians 11
 10. Rs 15.35 million
1. **DRAINAGE AND RECLAMATION INSTITUTE OF PAKISTAN (DRIP)**
Tando Jam, Hyderabad, 700060, Sindh, Pakistan
Tel : (02233) 331, (0221) 40409
Telex :
Cable :
 2. 1975
 - 3.
 4. Director General
 5. Drainage Engineering
Soil and Water Reclamation
Irrigation Practices and Water Management
Lysimeter Studies, Economics and Statistics

Soil and Analysis Laboratory
Documentation and Dissemination

- 6.
7. Books 1017
Current Periodicals 37
Microforms 21
Audiovisual Material 47
8. Journal of Drainage and Reclamation
9. Scientists 33
Technicians 26
10. Rs 8.25 million

1. **PAKISTAN COUNCIL FOR RESEARCH IN WATER RESOURCES (PCRWR)**

H.4, St.41, F-6/1, Islamabad, Pakistan

Tel : (051) 820732/ 813175

Telex :

Cable : WATRES

2. 1964
3. Semi-autonomous body under the Ministry of Science and Technology, Government of Pakistan, Islamabad
4. Dr Bashir Ahmad Chandio
5. Drainage and Reclamation Institute of Pakistan
Water Resources Research Centre, Islamabad
Water Resources Research Centre, Gilgit
Water Resources Research Centre, Quetta
Regional Office, Lahore
Regional Office, Bahawalpur

- 6.
7. Yes
8. Journals, Annual Reports, Newsletter
9. Scientists 77
Technicians 30
- 10.

1. **MONA RECLAIMATAION EXPERIMENTAL PROJECT (WAPDA)**

Tel : (0455) 2756

Telex :

Cable :

2. 1965
3. Autonomous body under the Water and Power Development Authority, Minsitry of Water and Power Government of Pakistan, Islamabad
- 4.
5. Agronomy
Hydrology and Water Management
Soil and Reclamaiation
Agricultural Economics
Agricultural Extension

- 6.
7. Yes
8. Journals and Newsletters
9. Scientists 26
Technicians 39
- 10.

1. **SALINITY MONITORING DIRECTORATE (SMD)**

SMO, WAPDA, Canal Bank, Moghalpura, Lahore, Pakistan

Tel : 331952

Telex :

Cable :

2. 1960
3. Autonomous body under the Water and Power Development Authority, Ministry of Water and Power, Government of Pakistan
4. Muhammad Ahsan Khan

5. Water Quality Monitoring Section
Soil Monitoring and Agricultural Studies
Soil Salinity Survey
Soil and Water Laboratory
Salinity Monitoring Laboratory, Peshawar
- 6.
- 7.
8. Newsletter
9. Scientists 22
Technicians 45
- 10.

1. **LOWER INDUS WATER MANAGEMENT AND RECLAMATION RESEARCH PROJECT (LIWMRRP)**
P.O.Box 1036, Hyderabad 71800, Pakistan
Tel : 40148-49
Telex :
Cable :
2. 1980
- 3.
4. Project Director
5. Soil and Water Quality
Agronomy
Water Management and Hydrology
Agricultural Economics
- 6.
7. Books 2
Audiovisual Material
- 8.
9. Scientists 11 [B.Sc.-3; B.E.-3; M.Sc.-4; Ph.D.-1]
10. Rs 9 million

1. **SOIL SURVEY OF PAKISTAN (SSP)**
Multan Road, Shahnour, Lahore 54570, Pakistan
Tel : 431377/ 443635
Telex : 44715 FDFI PAK
Cable : PAKSOILS
2. 1962
- 3.
4. Director General
5. Reconnaissance Soil Survey of Pakistan
Soil Survey Interpretations
Basic Soil Investigations
National Institute of Soil Survey
Transfer of Soils Technology to Agricultural Departments
- 6.
7. Books 2500
Current Periodicals 2
Microforms 1
- 8.
9. Scientists 53 [B.Sc.-11; M.Sc.-42]
10. Rs 10.11 million

1. **FARMS MACHINERY INSTITUTE (FMI)**
National Agricultural Reserach Centre
Park Road, Islamabad 45500, Pakistan
Tel : (051) 820370/ 820380
Telex : 5604 PARC-PK
Cable : MACDIV
Fax : (051) 812968
2. 1976
- 3.
4. Director
5. Tillage, Seeding and Planting
Harvesting and Threshing

Mechanisation and Industrial Research

- 6.
7. Books 400
Current Periodicals 30
Audiovisual Material 70
8. Published by the Directorate of Publication of the Pakistan
Agricultural Research Council
9. Scientists 25
Technicians 15
10. Rs 2.85 million

1. **ANIMAL SCIENCES INSTITUTE (ASI)**

P.O..National Institute of Health
Chak Shahzad, Islamabad, Pakistan
Tel : 892813/ 820989
Telex : PARC 5604 PAK
Cable : AGRICOUNCIL

2. 1977
- 3.
4. Director
5. Animal Production
Animal Health
Fisheries
Livestock Research Station
- 6.
7. Using NARC library
- 8.
9. Scientists 45
Technicians 3
10. Rs 8.0 million

1. **RESEARCH INSTITUTE FOR PHYSIOLOGY OF ANIMAL REPRODUCTION**

Bhunikey (Pattoki), Kasur District, Punjab, Pakistan
Tel : (04942) 2447
Telex :
Cable :

2. 1982
3. Department or Division within an Institution ; under the
Livestock and Dairy Developemnt Department, Punjab, Lahore
4. Dr Rizwan-Ul-Muqtadar
5. Livestock Experiment Station
Inservice Training Institute
Dairy Training and Technology Centre
A.I.Division
Cytogenetics Division
Microbiology Division
Harmone and Biochemical Division
Embryo Transfer Cell
- 6.
7. Yes
8. Newsletters
9. Scientists 14
Technicians 9
- 10.

1. **HONEYBEE RESEARCH LABORATORY (HRL)**

P.O. NARC, Islamabad, Pakistan
Tel : 829564/ 820052/ 46, 820052/ 47
Telex : 5604, PARC-PK
Cable : AGRESCOUNCIL

2. 1976
- 3.
4. Deputy Director General (Operations)
5. Natural Resources

6. Ph.D. in Apiculture
7. Books 1200
Current Periodicals 60
Audiovisual Material (slides) 50
- 8.
9. Scientists 4 [B.Sc.-1; M.Sc.-1; M.Phil.-1; Ph.D.-1]
Technicians 12
10. Rs 1.2 million

1. LIVESTOCK PRODUCTION RESEARCH INSTITUTE (LPRI)

Bahadurnagar, Okara, Pakistan

Tel : 3181/ 3593/ 3557

Telex :

Cable : LIVEINST

2. 1977
- 3.
4. Director
5. Animal Breeding and Genetics
Feeding and Management
Development Support Communication
Economics and Marketing
Fodder Crops
Health Control
Common Service
Farm Division
Livestock Experiment Stations
- 6.
7. Books 2700
Current Periodicals 20
Audiovisual Material
8. Annual Research Report
9. Scientists 45 [B.Sc./D.V.M.-12; M.Sc.-33]
Technicians 71
10. Rs 21.77 million

1. VERTEBRATE PEST CONTROL LABORATORY (VPCL)

Post Box 8401, Karachi University Campus

Karachi 75270, Karachi, Pakistan

Tel : 474081-4/ 472257

2. 1971
- 3.
4. Project Director
5. Mammalogy
Medical Zoology
Toxicology
Microbiology
Ornithology
- 6.
7. Books 500
Current Periodicals 10
Audiovisual Material 250
- 8.
9. Scientists 11 [B.Sc.-1; M.Phil./M.Sc.-8; Ph.D.-2]
10. Rs 2.82 million

1. LIVESTOCK DEVELOPMENT RESEARCH CENTRE (LDRC)

P.O.Box 112, Muzaffarabad, Azad Jammu and Kashmir

Pakistan

Tel : 4124

Telex :

Cable :

2. 1989
3. Department or Division within an Institution
4. Dr Muhammad Safdar Durani

5. Research on Local Non-Discript Animal
 Research on Cross Bred Animal
 Research on Buff
 Research on Goat

- 6.
- 7.
8. Newsletters
9. Scientists 3
 Technicians 11
- 10.

1. **POULTRY DEVELOPMENT CENTRE (PDC)**

Directorate of Poultry Development Centre, Punjab
 Murree Road, Shamsabad, Rawalpindi, Pakistan
 Tel : 840836/ 840685
 Telex :
 Cable : POULTRY

2. 1977
3. Department or Division within an Institution; under the Ministry of Livestock and Dairy Development, Government of Punjab, Pakistan
4. Dr Bashir Mahmood Bhatti
5. Disease Diagnostic Division
 Nutrition and Feed Testing Division
 Extension and Education Division
 Marketing and Procesing Division
- 6.
7. Yes
8. Journals, Annual Reports, Newsletters
9. Scientists 125
 Technicians 189
- 10.

1. **DIRECTORATE OF LIVESTOCK FARMS**

16-KH, Nazim-Ud-Din, Cooper Road, Lahore 6, Punjab, Pakistan
 Tel : 222905-6-7
 Telex :
 Cable : LIVE FARMS

2. 1962
3. Department or Division within an Institution; under the Livestock and Dairy Development Department, Lahore, Punjab
4. Ch Muhammad Ikram-Ul-Haq
5. Animal Nutrition Centre, Rakh Dera, Chahl District, Lahore
 Sheep and Goat Development Centre, Rakh Khairewala, Layyah District
 Sheep and Goat Development Project, Multan
 Wool Research Lab, Bhawalpur
 18 Livestock Experiment Stations
- 6.
7. Yes
8. Newsletters
9. Scientists 67
 Technicians 274
- 10.

1. **VETERINARY RESEARCH INSTITUTE (VRI)**

Ghazi Road, Lahore Cantt, Punjab, Pakistan
 Tel : 370006
 Telex :
 Cable : VETRES

2. 1963
- 3.
4. Director
5. Virology
 Florescence Microscopy and Tisue Culture

Bacteriology
Sterilization and Mycoplasmosis
Poultry Vaccine and Pathology
Newly-emerging, Obscure and Mycotic Diseases
Parasitology and Acarology (?)
Disease Investigation, Disease Intelligence, Zoonosis and Histopathology
Foot and Mouth Disease Research Centre

- 6.
7. Books 5000
Current Periodicals 25
8. Pakistan Journal of Veterinary Research
9. Scientists 99 [B.Sc.-63; M.Sc.-36]
10. Rs 18.18 million

1. DIRECTORATE OF VETERINARY RESEARCH INSTITUTE (DVRI)

Bacha Khan Chock, Peshawar, NWFP, Pakistan
Tel : 274891-2/ 276296 / 274985
Telex :
Cable : VETRESS

2. 1949
3. Department or Division within an Institution; under the Agriculture Ministry, Government of NWFP, Peshawar
4. Dr Mohammad Bashir Quresh
5. Biological Production Division
Parasitology Division
Microbiology Division
Biotechnology Division
Livestock Research and Development Farm Surrezai

- 6.
- 7.
8. Journals, Annual Reports, Newsletters
9. Scientists 44
Technicians 31
- 10.

1. FISHERIES RESEARCH INSTITUTE (FRI)

G.T.Road, Manawan, P.O.Box Batapur, Lahore, Pakistan
Tel : 338415
Telex :
Cable :

2. 1969
3. Department or Division within an Institution; under Secretary of Forestry; Wildlife; Fisheries and Tourism Department, Government of Punjab, Lahore
4. Muhammad Nazir Bhatti
- 5.
- 6.
7. Newsletters
8. Scientists 31
Technicians 11
- 9.
- 10.

1. MARINE FISHERIES DEPARTMENT (MFD)

West Wharf, Fish Harbour, Karachi 2, Pakistan
Tel : 202795-8
Telex :
Cable : CANTFISH

- 2.
- 3.
4. Director General
5. Fisheries Technology
Research
Planning

- 6.
7. Books 1951
Current Periodicals 30
Microforms 3
Audiovisual Material
8. Handbook of Fisheries Statistics
Fisheries Newsletter
9. Scientists 33 [B.Sc-18; M.Sc.-14; Ph.D-1]
Technicians 37
10. Rs 9.23 million

1. **PAKISTAN FOREST INSTITUTE (PFI)**

- Peshawar, NWFP, Pakistan
Tel : 40580
Telex : PAKFI
Cable :
2. 1948
 - 3.
 4. Director General
 5. Forestry Research
Forest Products Research
Sericulture Research
Watershed Management Research
Educational and Biological Sciences Research
 6. B.Sc. and M.Sc in Forestry
 7. Books 52000
Current Periodicals 97
 8. Pakistan Journal of Forestry
 9. Scientists 14
Technicians 10
 10. Rs 11 million

1. **PUNJAB FORESTRY RESEARCH INSTITUTE (PFRI)**

- Tel : 53405-6
Telex :
Cable : PUFRI
2. 1986
 3. Department or Division within an Institution; under the Forestry; Wildlife; Fisheries and Tourism Department, Government of Punjab, Lahore
 4. Sahibzada Muhammad Hafeez
 5. Silviculture Research Division
Forest Management Research Division
Range Management Research Division
Sericulture Research Institution
Pest Control Reserach Division
Forestry Education and Training Division
Forest School Ghora Gali
Forest School Bhawalpur
 - 6.
 7. Yes
 8. Journals, Annual Reports, Newsletter
 9. Scientists 37
Technicians 84
 - 10.

1. **RANGELAND RESEARCH INSTITUTE (RRI)**

- National Agriculture Research Centre, Park Road
P.O. Box 1031, Islamabad, Pakistan
Tel : (051) 820052/53, 815436 (Director's residence)
Telex :
Cable : AGRESCOUNCIL
Fax : 812968

2. 1991
- 3.
4. Director
5. Forage and Pasture Research Programme
 - Agroforestry
 - Agro-ecology
 - Wildlife
 - National Herbarium
- 6.
7. Books 40000
 - Current Periodicals 900
 - Microforms 500
 - Audiovisual Material
 - Laser Film
8. Pakistan Journal of Agricultural Research
 - Progressive Farming
9. Scientists 23 [B.Sc.-2; M.Sc.-13; Ph.D.-8]
 - Technicians 2
10. Rs 1.8 million

1. **FACULTY OF AGRICULTURE, GOMAL UNIVERSITY**

Dera Ismail Khan, NWFP, Pakistan

Tel : 4395

Telex :

Cable :

Fax : 4673 (0529)

2. 1979
3. Semi-Autonomous; under Gomal University through the UGC under the Ministry of Food, Science and Technology
4. Dr Ahmad Khan Baloch
5. Animal Science
 - Agricultural Chemistry
 - Agricultural Economics
 - Entomology
 - Horticulture
 - Plant Breeding and Genetics
 - Food Science and Technology
 - Soil Science
 - Agronomy
 - Farm Mechanization
- 6.
7. Yes
8. Journals
9. Scientists 48
 - Technicians 2
- 10.

1. **UNIVERSITY COLLEGE OF AGRICULTURE**

B.Z.University, Multan 60800, Pakistan

Tel : 75581/ 40316/ 33162

Telex :

Cable :

Fax : 41165

2. 1989
3. Department or Division within an Institution; under the UGC, Islamabad
4. Dr Zahid Ata Cheema
5. Agronomy
 - Entomology
- 6.
7. Yes
8. Journals, Annual Reports, Newsletters
9. Scientists 6
- 10.

1. **UNIVERSITY COLLEGE OF AGRICULTURE**
Rawalkot, Azad Kashmir, Pakistan
Tel : 92-576-2688
Telex :
Cable :
Fax : 92-576-2826
2. 1980
3. Autonomous body under the UGC, Islamabad
4. Dr M. Fasahat Ali Khan
5. Soil Science
Agronomy
Horticulture
Entomology
Food Technology
Plant Breeding and Genetics
Animal Sciences
- 6.
7. Yes
- 8.
9. Scientists 38
Technicians 14
- 10.

1. **BARANI AGRICULTURAL COLLEGE**
Murree Road, Rawalpindi, Pakistan
Tel : 843882/ 426707
Telex :
Cable :
Fax : 051-426808
2. 1979
3. Department or Division within an Institution; under the Government of Punjab, Lahore
4. Dr Muhammad Azam Khan
5. Agronomy
Agriculture
Entomology and Zoology
Horticulture
Soil Science
Plant Pathology
Plant Breeding and Genetics
Food Technology
Agricultural Economics
- 6.
7. Yes
8. Journals, Annual Reports, Newsletters
9. Scientists 42
Technicians 15
- 10.

1. Institution : **NORTH -WEST FRONTIER PROVINCE AGRICULTURAL UNIVERSITY**
(NWFP AU)
Peshawar, Pakistan
Tel : (0521) 40230 - 9
2. Year of Establishment : 1981
3. Status : Autonomous body under the Ministry of Agriculture, Government of NWFP
4. Head : Vice Chancellor - A.R.Khan
5. Principal Units : Animal Husbandry and Veterinary Science
Crop Production Science
Crop Protection Science
Rural Social Science
Natural Sciences
Institute of Development Studies

12 off-campus research institutes/centres
previously established by the provincial
government

6. Degrees Offered : B.Sc.(Hon) - 4 Years full time
M.Sc.(Hon) - 4 Terms (2 terms course work
and 2 terms for thesis research)
7. Academic Year :
8. Manpower :
9. Library : Books 65,000
Current Periodicals 165
Institute of Development Studies 17,400
10. Publications :
11. Budget : Rs 36,256,796 (1991)

1. Institution : **SINDH AGRICULTURAL UNIVERSITY (SAU)**,
Tandojam, Sindh, Pakistan
Tel : (02233) 282
Cable : SAUNI, Tandojam, Sindh, Pakistan
2. Year of Establishment : 1977
3. Status : Autonomous body under the Ministry of Agriculture,
Government of Sindh
4. Head : Vice Chancellor - I.A.Soomro
5. Principal Units : Crop Production
Crop Protection
Animal Husbandry and Veterinary Science
Agricultural Engineering
Agricultural Social Sciences

Constituent college : Z.A. Bhutto Agriculture College, Dokri

6. Degrees Offered : B.Sc Ag (Hon) - 4 Years
B.E Ag - 4 Years
D.V.M - 4 Years
M.Sc (Ag) - 2 Years
Ph.D - 2 Years by thesis
7. Academic Year :
8. Manpower :
9. Library : Books 53,670 volumes
10. Publications : Pakistan Journal of Agriculture
Pakistan Journal of Agricultural Engineering
Pakistan Journal of Veterinary Science
11. Budget : Rs 54.05 million (1990-91)

1. Institution : **UNIVERSITY OF AGRICULTURE FAISALABAD (UAF)**
Faisalabad, Punjab, Pakistan
Tel : (0411) 25911 -9
Cable : AGRIVARSITY, Faisalabad, Pakistan
Fax : (0411) 27846
2. Year of Establishment : 1961. Initially established as the
West Pakistan Agricultural University
by upgrading Punjab Agrictural College
and Research Institute, Lyallpur,
founded in 1909; present name since 1973.
3. Status : Autonomous body under the Ministry of Agriculture,
Government of Punjab.
4. Head : Vice Chancellor M. Rafiq Khan
5. Principal Units : Agriculture
Animal Husbandry
Veterinary Science
Agricultural Economics and Rural Sociology Science
- Constituent College: College of Veterinary Science, Lahore
Affiliated College: Barani Agricultural College, Rawalpindi.
6. Degrees Offered : B.Sc.(Hon).Ag. - 4 Years
B.Sc (Hon) A.H. - 4 Years
B.Sc. Agri. Engg - 4 Years

D.V.M - 4 Years
M.Sc/M.Sc (Hon) - 4 Semesters by course work and thesis.
Ph.D - 6 to 8 Semesters by course work and thesis.

7. Academic Year : July - June (2 Semesters)
8. Library : Books 143,000
Current Periodicals 250
9. Publications: Pakistan Journal of Agricultural Sciences
Pakistan Veterinary Journal
Pakistan Entomologist.
Annual Report
10. Manpower : Scientists 469
Technicians 35
11. Budget : Rs 108.19 million

1. Institution : **GOMAL UNIVERSITY**
Dera Ismail Khan, NWFP, Pakistan.
Tel : (0529) 9279/ 9239/ 5260
Cable : UNIVERSITY CAMPUS, D I Khan.
Fax : (0529) 4673

2. Year of Establishment : 1974
3. Status : Autonomous body under the Ministry of Education, Government of NWFP.
4. Head : Vice Chancellor - Prof. G.A.Miana
5. Principal Units : Faculty of Agriculture and two more faculties.
6. Degrees Offered : B.Sc (Hon) Agriculture - 4 Years
M.Sc (Hon) Agriculture - 2 Years
7. Academic Year : September - June (2 Semesters)
8. Manpower :
9. Library : Books 16,000
Current Periodicals 135
10. Publications : National Research Journal
Annual Report
11. Rs 59.539 million (1991-92)

1. Institution : **BHAUDDIN ZAKARIYA UNIVERSITY (BZU)**
Multan, Punjab, Pakistan.
Tel : (061) 33162/ 40316/ 75581/ 75583
Cable : UNIVZAKARIA, Multan, Pakistan

2. Established : 1975 as University of Multan; present name since 1979.
3. Status :
4. Head : Vice Chancellor - Khwaja Imtiaj Ali
5. Principal Units : University College of Agriculture at the main campus as a constituent college and several other institutes and affiliated colleges.
6. Degrees Offered : B.Sc (Hon) Ag. - 4 Years
M.Sc (Hon) Ag. - 2 Years
7. Academic Year : September - June (2 Semesters)
8. Manpower :
9. Library : Books 16,000
Current Periodicals 135
10. Publications :
11. Budget :

1. Institution : **AZAD JAMMU AND KASHMIR UNIVERSITY (AZKU)**
Muzaffarabad, Azad Kashmir, Pakistan.
Tel : 2060/ 3328/ 2366/ 3306/ 4444
Telex : 4717
Cable : UNIVERSITY MUZZAFFARABAD, Pakistan.

2. Year of Establishment : 1974
3. Status :

4. Head : Vice Chancellor - M.S.Abbasi
5. Principal Units : University College of Agriculture,
Rawalakot and six other university
colleges/faculties and many affiliated
colleges.
6. Degrees Offered : B.Sc.(Hon) Ag. - 4 Years
7. Academic Year :
8. Manpower :
9. Library :
10. Publications :
11. Budget :

1. Institution : **NORTH - WEST FRONTIER PROVINCE UNIVERSITY
OF ENGINEERING AND TECHNOLOGY (NWFPUET)**
P.O. Box 841 Peshawar, NWFP, Pakistan.
Tel : (0521) 40573/ 40382/ 41297/ 40386/ 44253
Telex : 52477 ENG UP PK
Cable : NWFP UNIVERSITY OF ENGINEERING AND
TECHNOLOGY, Peshawar, Pakistan.
Fax : (0521) 45388

2. Year Of Establishment : 1974
3. Status :
4. Head : Vice Chancellor - Karim Khan
5. Principal Units : Department of Agricultural Engineering and
several other departments.
6. Degrees Offered : B.Sc Engineering with specialisation
in Agricultural Engineering
M.Sc Engineering with specialisation in Soil and Water
Engineering
7. Academic Year : September-June (2 Semesters)
8. Manpower :
9. Library : Books 16068
Current Periodicals 76
10. Publications : Journal of Engineering and Applied Science
Annual Report
11. Budget : Rs 41 million (1991-92)

1. Institution : **UNIVERSITY OF BALOCHISTAN (UB)**
Sariab Road, Quetta, Balochistan, Pakistan.
Tel : (081) 40431
Cable : BALOCHISTAN UNIVERSITY, Quetta
2. Year of Establishment : 1970
3. Status :
4. Head : Vice Chancellor - Prof M.K.Raisani.
5. Principal Units : Balochistan Agriculture College, Quetta,
affiliated to the university.
6. Degrees Offered : B.Sc(Hon) Ag.
7. Academic Year :
8. Manpower :
9. Library :
10. Publications :
11. Budget :

