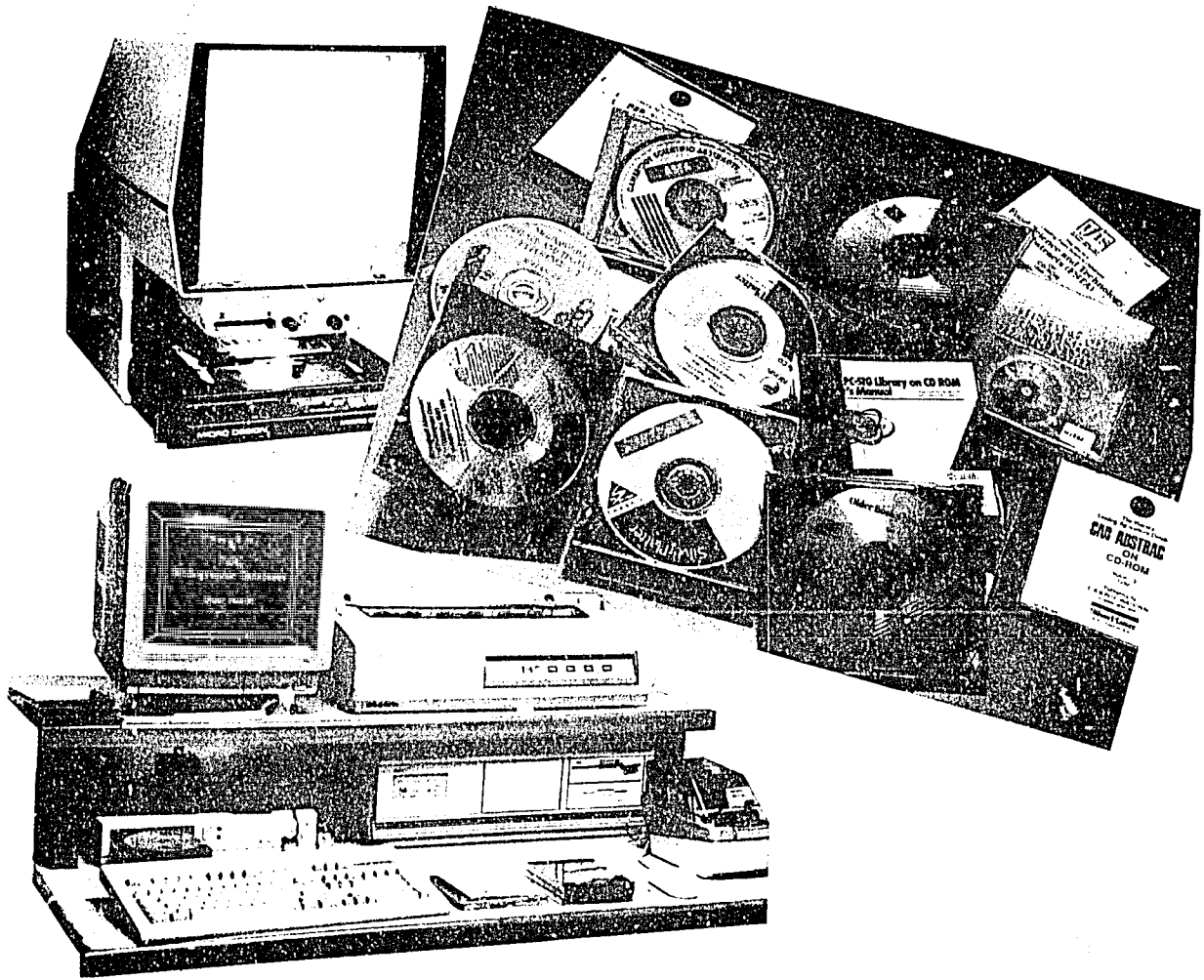


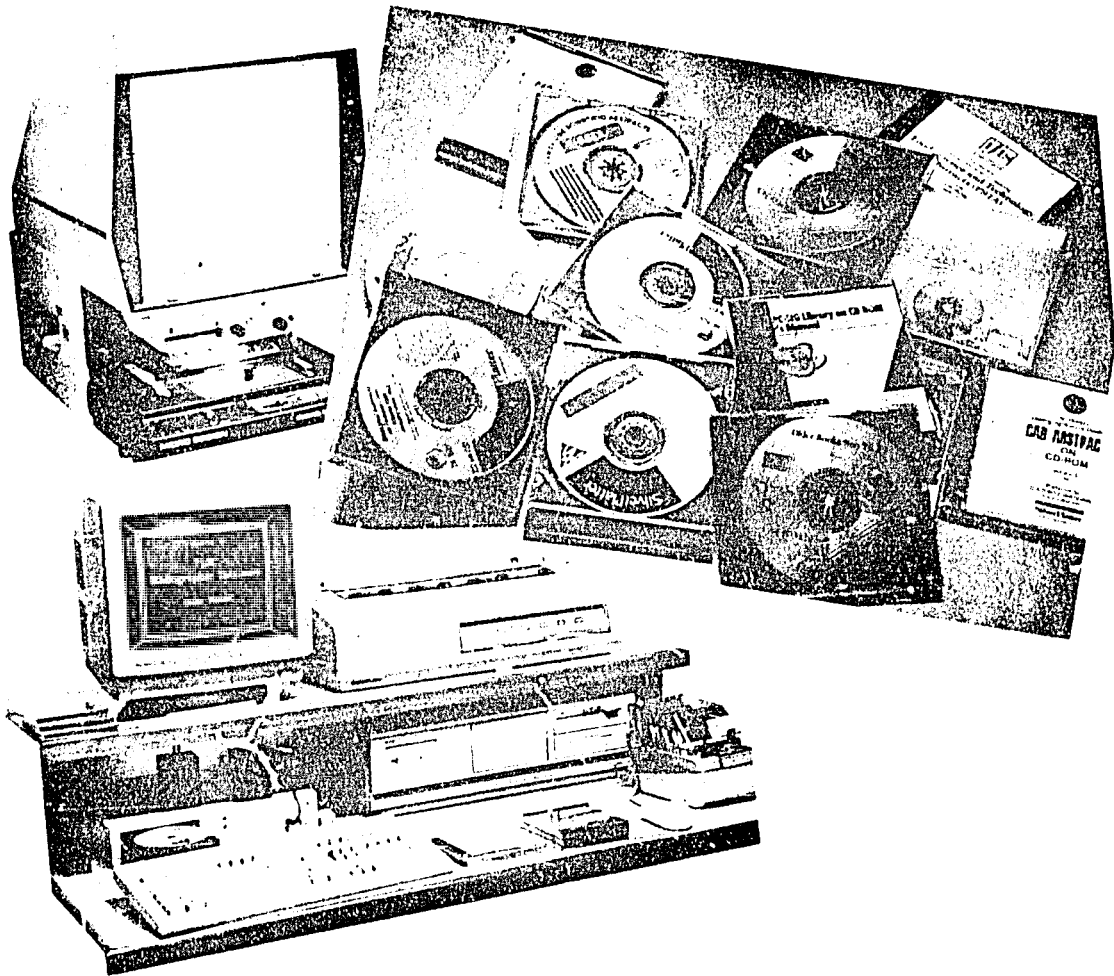
Agricultural Library Resources in Pakistan



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Pakistan Agricultural Research Council
Islamabad

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B

KEY TO COUNTRY CODES

<u>Code</u>	<u>Country</u>
AT	Austria
AU	Australia
CA	Canada
CH	Switzerland
CN	China
DE	Germany
FR	France
GB	United Kingdom
IE	Ireland
IN	India
IT	Italy
NL	Netherlands
NZ	Newzealand
SE	Sweden
UN	United Nations
US	United States
*	Unknown

KEY TO FREQUENCY CODES

<u>Code</u>	<u>Frequency</u>
a	Annual
bi-m	Bi-monthly
irreg	Irregular
m	Monthly
q	Quarterly
s-a	Semi-annual
s-m	Semi-monthly
v/2y	One volume every two years
w	Weekly
x/yr	x Issues a year (where x = 3,5,7-11 etc.)
?	Unknown

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**MART LIBRARY
STRENGTHENING PROGRAM**

INTRODUCTION

A number of studies have shown that agricultural libraries were generally facing acute shortage of reading materials, equipment and trained manpower. Most of these libraries were under-utilized as materials available in them, in some cases, were decades old. Only a few libraries were subscribing to a limited number of international journals. Either due to financial constraints or lack of motivation, only a few libraries were offering information services for their patrons. Online access to international databases, mostly located either in Europe or North America, was impossible due to inadequate telecommunication facilities. On one hand there was a general complaint of shortage of funds for the purchase of books, journals and other materials, and on the other hand there was no mechanism for resource sharing among the libraries. Similarly, lack of an infrastructure for the coordination of library activities at the national level was also greatly felt.

In 1988, a short-term USAID consultant was hired to review the current status of agricultural libraries in Pakistan and to make recommendations for the establishment of a national agricultural library network in the country. Dr. Melvin R. George in his consultancy report observed that agricultural libraries in Pakistan were ill prepared to further the goal of improving agricultural research in the country. He was of the view that this situation was further deteriorating.

The MART authorities were fully convinced that investment in an agricultural network would result in an overall enhancement of agricultural productivity in Pakistan. In order to improve agricultural libraries, special funds were sought from the USAID, and MART received US\$ 1 million out of ACE funds. This money was spent for the procurement of research periodicals and library related equipment from abroad. MART arranged money from its own resources for local purchases, training, inland travel, furniture and fixtures, space renovations, etc.

PROJECT OBJECTIVES

The objectives of the MART Library Strengthening Program were as follows:

1. Strengthen the knowledge base of selected agricultural libraries through the procurement of core agricultural journals on microforms.
2. Introduce modern information processing and storage technologies.
3. Elevate knowledge of agricultural librarians through in-service training courses.
4. Encourage resource sharing among the agricultural libraries.
5. Assist provincial agricultural libraries to automate their library catalogues in a standardized format with the ultimate goal to build a national online agricultural database.

PROJECT DESIGN

Statistics available at the Directorate of Scientific Information, NARC, on the use frequency of different services show that a predominant number of users of these services belonged to provincial agricultural institutions. Out of them, about 60 per cent of users were from academic institutions. It was, therefore, decided that all the three agricultural universities and selected agricultural colleges will be included in the network. Moreover, major agricultural research institutions located in different geographical zones were also considered. It was obvious that not all libraries of major institutions could be covered under this project. However, it was assumed that a library included in the MART network would also cater to the information needs of neighboring institutions. For example, the library of Central Cotton Research Institute, Multan, was supposed to provide access to MART equipment and databases to all users in that region.

In total, 17 academic and research institutions were identified. Libraries of these institutions were classified as "A", "B" and "C", based on the following criteria:

1. Library collections including number of books, reports, documents, subscription to journals, special materials like audio-visuals, microforms, etc.
2. Number, type and educational level of potential users including users from adjoining institutions.
3. Availability of professional and para-professional library staff and level of their skills.
4. Existing library and information services, their extent and scope.

Based on the above criteria, four libraries were classified as "A", eight as "B", and five as "C" category libraries. It is important to clarify here that this classification was solely for the distribution of different commodities through the MART program, and it has nothing to do with the quality of these libraries. For example, the library of Agricultural Research Institute, Sialkot, was classified as "B" only to enable it to get more assistance than Nuclear Institute for Agriculture and Biology, which is already better equipped and stocked. Moreover, this classification only affected their entitlement to get different numbers of journals on microforms and not the equipment or other facilities. The "A" category libraries were entitled to order 100-120 titles, the "B" category libraries 50-70, and "C" category libraries 25-40 journals.

At the final stage of the project, it was decided that the savings of the program would be used to provide CD-ROM drives and some selected databases to a few more libraries. These libraries included Fisheries Research and Training Institute, Lahore; Livestock Production Research Institute, Bahadurnagar; Agricultural Research Institute (North), Swat; and Directorate of Agricultural Information, Lahore.

PROJECT SCOPE

The scope of the MART project was to provide one-time assistance to libraries in the network. Due to USAID procurement restrictions, it was not possible to continue subscription to journals after the termination of MART project. Similarly, updating of CD-ROM databases was also restricted to the life of the project. It was decided that the project money will only be available for acquisition of current literature in the form of journals. There was no provision for procurement of books.

The project assumed that existing manpower at various libraries was sufficient to make efficient use of provided equipment. However, a change in the existing job descriptions of the library professionals was expected. Under the new situation, the librarians were supposed to work on computerized catalogues instead of preparation of various catalogue cards manually. Similarly, now a greater portion of their time was expected to be spent on database searching and users' education. It was observed that almost all libraries were facing shortage of para-professional and support staff, especially data entry operators. At most locations the heads of institutions realized this situation and assured provision of supplementary staff.

Appropriate training of hardware and software provided under MART was a key factor in the success of the program. It was realized that enough time and money were not available for foreign training. However, a comprehensive plan for in-country training was prepared. The training plan was linked with the equipment procurement schedules. However, due to the Gulf crisis, the equipment procurement and training schedules were badly disrupted.

All the libraries were also provided with specifically designed furniture, which included computer tables, desks for photocopiers and microfiche reader-printers, TV/VCR trolleys and revolving chairs. At some locations air-conditioners were also provided by the MART program.

NEEDS ASSESSMENT

A survey was conducted to inventory the information resources available at different agricultural libraries in the country. Although a similar survey was conducted in 1985, it was felt that fresh figures were needed to provide more current and reliable data for better project design. Another purpose was to collect information about existing equipment at various locations so that new equipment should be compatible with it. Identification of specific problems encountered by various libraries in their efficient day-to-day operations, and shortcomings and gaps in their present collections were studied. The surveyed libraries were also helped to chalk out their future plans and priorities for literature and equipment.

This survey was followed by selection of appropriate hardware and software for each library, keeping in view their existing capabilities and skills. Each library was asked to submit a list of required journals by it on microforms. They were also requested to actively

involve their researchers in the process of journal selection. Selection of appropriate software for automation of library services was another important decision. For this purpose, a comparative analysis of different software like Sci-Mate, Micro-CDS/ISIS, dBASE III plus, INMAGIC, etc. was undertaken.

SELECTION OF CORE JOURNALS ON MICROFORMS

Availability of current information in the form of research journals is vital for conducting meaningful research. Journals are the backbone of library collections in R&D organizations. They keep scientists informed of latest developments in their specific fields and save material and manpower resources by avoiding duplication of research efforts. Unfortunately, due to continuous increases in journal prices, higher inflation rates, frequent budget cuts, etc., research journals are beyond the purchasing power of most libraries. The seriousness of this situation can well be judged from the fact that in 1985-86 the PARC was subscribing to 237 journals, whereas with the same amount of money it could only subscribe to 80 titles in 1990-91. A survey of agricultural libraries in 1985 have shown that more than 50 percent of surveyed libraries were subscribing to less than 10 foreign journals. Now the situation has further deteriorated, and some libraries have been obliged to completely stop their subscriptions to foreign periodicals. Under these circumstances, it was absolutely necessary to continue procurement of these journals and to add some new titles in their collections.

Hard copies of journals are usually very costly, whereas their microform versions are about 50-60 percent cheaper. It was, therefore, decided to acquire back volumes of selected periodicals in the form of microforms (microfiches and microfilms).

The libraries under the MART program were asked to prepare lists of journals in consultation with their scientists. These lists were sent to M/s University Microfilms International (UMI), USA for quotations. It was learnt that about 40 percent of the requested journals, especially from India, were not available with the M/s UMI. Another option was to search these journals from some other microfilming vendors, but it was laborious and time consuming. These libraries were again approached to revise their lists and select some other journals from the UMI Serials Catalogue to replace the unavailable titles.

The MART project coordinators were aware of the fact that some libraries, even in the same city or geographical region, were requesting the same title. Keeping in view the lack of resource sharing attitude among the librarians, also observed by Dr. Melvin George in his consultancy report, it was decided to ignore the duplications. However, in most cases the concerned librarians were informed of this duplication with the chance to amend their lists. Except for one or two instances, most of the librarians were not moved.

As MART procurement was a one time investment, it will be the responsibility of each library to continue subscriptions to these titles either on microforms or on print medium. However, before submitting their subscriptions it would be desirable to eliminate

duplicate procurement of the same journal by more than one library. This directory and PARC's National Database of Agricultural Journals will provide a source to eliminate duplication. It is equally important that agricultural libraries should enter into a formal agreement for loaning and resource sharing.

SELECTION OF EQUIPMENT

Selection of appropriate equipment for each library was a tedious job. In most cases the librarians were not aware of latest information handling and storage equipment and therefore not in a position to provide their shopping lists or preferences. One important factor in the selection of this equipment was that it should be sophisticated enough to efficiently handle most of the library applications, yet easy to learn and use with local repair and maintenance facilities. Only those models and manufacturers were considered who have better repair & maintenance facilities all over the country.

One factor which caused considerable delay in the procurement of equipment was electric voltage in Pakistan. One of the USAID purchase requirements was that the selected equipment should be manufactured in the USA. It took a while to locate manufacturers in the USA marketing 220v. equipment. In some cases like photocopiers, USAID exemption was sought to buy from some other country.

Such equipment was selected that could help librarians to automate their most important operations. The needs assessment survey provided a base for the selection of equipment for different libraries. Some libraries already having equipment like microcomputers, microfiche reading and printing equipment, photocopiers, etc., were not considered for such equipment. However, in cases where the existing equipment was obsolete or worn out additional equipment was recommended.

Because literature is available in a variety of formats like print, audio-visuals, microforms, machine-readable formats, CD-ROM, etc., another consideration for equipment selection was to make the recipients multi-media libraries. Similarly, some equipment not frequently used by the libraries themselves like punch and binding machines have also been provided to them. The logic behind it was to build the image of libraries as multi-dimension service centers and to indirectly attract scientists to come to libraries.

During the needs assessment phase, the recipients were told clearly that MART is only responsible for providing the equipment, whereas supplies and repair and maintenance will be the responsibility of the libraries. These libraries were encouraged to raise their own funds for supplies and repair & maintenance through imposing reasonable fees for different services. In most cases libraries having photocopying facilities are already charging their clients according to market rates. However, there is no tradition of charging for database searches. The British Council Library, Lahore, is charging for CD-ROM database searches, but the use frequency of its service was very low as compared to free searching of the same databases at NARC. Charging for CD-ROM and other database searches is complicated and tricky in Pakistan; therefore, it was left to the discretion of individual libraries to decide

their charging policies. However, the charging system of University of Agriculture, Faisalabad, could be considered and adapted by other libraries according to their specific situations.

Due to very limited funds, it was decided that instead of involving commercial companies, the installation work will be undertaken by a team comprising MART and NARC scientific information professionals. The librarian and para-professional staff at each locations were also involved during installation work so they can understand different components and functioning of these machines. At all locations, the installation work was followed by a detailed briefing for the senior management and scientists about the newly developed MART library facilities.

At most locations, the recipient institutions were responsible for site preparation including electrification and air-conditioning. However, space renovation at a few places facing serious financial constraints was undertaken by MART.

CD-ROM DATABASES

The remarkable success and popularity of CD-ROM databases installed at the Directorate of Scientific Information, NARC encouraged MART authorities to consider the supply of this technology to the provincial libraries. As a predominant number of requests for CD-ROM database searches were emerging from the provinces, it was considered wise to decentralized this technology. Moreover, user-friendliness, flexibility and minimum amount of training required to learn this technology made it a strong candidate for procurement.

It was decided that all libraries will get a few more frequently used and relatively less expensive databases. Moreover, they will also get selected CD-ROM reference sources like Compton's Family Encyclopedia and McGraw-Hill Science & Technology Reference Set containing McGraw-Hill Science and Technology Encyclopedia and Dictionary. The purpose of providing a general purpose Compton's Encyclopedia was to attract the novice users and encourage them to use CD-ROM technology more confidently.

Beside some comprehensive databases like AGRIS, AGRICOLA and CAB Abstracts, databases in certain specific fields like Pest Bank, Aquatic & Fisheries Abstracts, Water Resources Abstracts, VET-BEAST database, etc. have also been procured to meet specific requirements of certain institutions. All the three agricultural universities have also got a highly reputable database on education called ERIC. It was not economically possible to provide all CD-ROM products to all libraries in the MART network. Therefore, it was decided that a comprehensive collection of a wide range of databases will be built at the NARC. Beside above-mentioned databases, the NARC has received some specialized databases like NTIS, CRIS/ICAR, TREE-CD, LISA, ERIC, Dissertation Abstracts, Food Science & Technology Abstracts (FSTA), etc.

As NARC enjoys the services of most experienced CD-ROM experts in Pakistan, it was perhaps the most suitable site to experiment with some library-related CD-ROM

products like OCLC CAT CD450 and Bibliofile. Successful testing of these products could result in complete change of manual cataloguing and classification to fully automated cataloguing. It will help avoid original cataloging thus saving a good amount of librarians' time. As already discussed, now librarians will spend most of their time in providing better services to their patrons.

Continuation of subscriptions to CD-ROM databases is also vital to keep the files complete and current. For this purpose, additional financial resources will be required. In this regard a centralized arrangement for the procurement of CD-ROM products could be made through NARC/PARC. As two national level sponsored projects, i.e., Bostid and ARP-II have their research projects scattered all over the country, they can be approached to allocate some money for the procurement of current CD-ROM discs. It will also help projects under these programs to get up-to-date information for their research activities.

SOFTWARE SELECTION

A wide range of library application software is available on the market. Selection of an appropriate software is of prime importance, but in a network situation its significance becomes even more crucial. The library survey indicated that some libraries were using INMAGIC and a few Sci-Mate and DBASE III plus. Among these software, INMAGIC was found more flexible, user-friendly, capable of handling sophisticated as well as simple applications. Moreover, its searching capabilities, report formats and data security options were more advanced than the other two. Another advantage of the INMAGIC was that it is being continuously improved. Recently, the INMAGIC Plus version has been announced, having additional capabilities of phrase searching, authority control, etc. The INMAGIC software also has an edge over other software in having some additional modules like "SearchMagic", an extremely user-friendly searching module for novice users; "Biblioguide" for sophisticated applications; and "MARC Adaptor" to convert cataloguing records from MARC format to local online catalogues. It was also important that some big institutions like universities might need more terminals for their users. The INMAGIC network version was bought for such institutions.

Beside INMAGIC 7.2 software, all the libraries have also got "SearchMagic" software for novice users. SearchMagic is a very user-friendly searching module, and a user with little or no computer training can easily search different databases. The INMAGIC network version was given to all agricultural universities and National Agricultural Research Center (NARC). Similarly, the Biblioguide was also provided to all the three agricultural universities. Only the NARC has got a copy of "MARC Adaptor" to experiment with OCLC CAT CD450 for automated cataloguing through the conversion of MARC records according to its local needs.

CD-ROM can store huge amounts of data. It is, therefore, very important that the retrieval software should be capable of retrieving and processing information at a very high

speed. It was fortunate that most of the reputable international agricultural databases were available from M/s SilverPlatter. Its retrieval software called SPIRS (SilverPlatter Information Retrieval System) is one of the best software for CD-ROM products. It is extremely user-friendly, and a novice user with little training can efficiently use it. Its searching capabilities could well be compared with any online vendor/utility. Most of the CD-ROM databases procured by MART like AGRIS, AGRICOLA, CAB Abstracts, Biological Abstracts, NTIS, CRIS/ICAR, LISA, ERIC, VET-BEAST, TREE-CD, etc., were available from the SilverPlatter. The two encyclopedias and other databases came with their own retrieval software.

TRAINING

A comprehensive in-service training plan was developed to acquaint the librarians with modern library handling and management techniques. In this regard a series of training courses were conducted with financial assistance from MART. In 1988, a "National Agricultural Librarians' Workshop", was arranged from 7-11 August 1988 at the NARC.

The second training course, entitled "Modern Library Methods and Techniques", was conducted from 25-30 November 1989 at the NARC. The objective of this course was to acquaint the librarians with modern library methods and techniques and to prepare them for further advance training. Some 28 librarians and library directors from all the four provinces and Azad Jammu & Kashmir attended this course.

Last course in the series entitled "Library Automation under INMAGIC Software", was held from 14-26 September 1991 at the NARC. Some 18 agricultural librarians from institutions participating in the MART network attended this course. The objective of the course was to expose trainees to the basic principles of library automation. The trainees were also provided guidelines for the use of a common data structure and data format for achieving compatibility among the individual catalogues of libraries under MART network.

Due to limited time, the scheduled course for the CD-ROM databases could not be arranged. At installation time, one-day on-site workshops were conducted at most of the locations. Searching of comprehensive international database on CD-ROM is quite tedious and cumbersome. Moreover, usually adequate subject knowledge is required to conduct a successful search. In view of this, it was decided that at least one person from each division/section/unit of the institution with adequate computer knowledge should be involved in on-site training. This experiment was successful, and it was observed that scientists started understanding the searching process more quickly than library professionals. It is expected that trained scientists will act as master trainers for their fellow scientists.

In spite of a comprehensive training plan, it was felt that more training and on-site troubleshooting sessions were required. However, due to limited funds and shortage of trainers, it was not possible to further extend the training plan.

RECOMMENDATIONS

In order to fully benefit from the information resources developed through MART program, the following recommendations are made:

1. The PARC should develop a mechanism for coordination of library and information related activities at the national level. On the pattern of coordinated programs for major crops and other commodities, a National Coordinator (Library & Information) should be appointed at the PARC Headquarters.
2. A formal resource sharing and inter-library loaning agreement should be signed and strictly adhered to by all the agricultural libraries in Pakistan.
3. Enough funds should be allocated by each institution to keep up-to-date their journals and CD-ROM databases received through MART.
4. More local and foreign training opportunities should be created for librarians and information specialists.
5. Libraries may impose some reasonable fee on their services to discourage misuse of facilities and to generate funds to meet running costs of equipment.
6. Because latest scientific knowledge in the form of journals and databases is now available at key research institutions, senior management should take adequate measures to ensure its maximum utilization. The proposals for new projects may not be considered unless the principal investigators of the projects provide up-to-date reviews of literature on their topics.
7. Budget of each new research proposal should also contain enough money for the purchase of current literature related to its research topic.
8. Librarians should start a variety of promotional activities to acquaint their respective communities with the newly developed library facilities.

INVENTORY

**A-1: NATIONAL AGRICULTURAL RESEARCH CENTRE,
(DOCUMENTATION CENTRE), ISLAMABAD**

EQUIPMENT

<u>Item</u>	<u>No.</u>
1. Microcomputer Everex Tempo 386/SX, Super VGA Color Monitor, 101 Keyboard, 40 MB Hard Disk, DOS 5.0	3
2. EPSON 1170, 24 Pin Dot Matrix Printer, 10 fonts, 6 pitches (sizes)	3
3. Hewlett Packard LaserJet III	1
4. CD-ROM Drive: Todd Industries TCDR-6000	3
5. CANON plain paper copier, reduction/enlargement with other basic features.	1
6. Cordell XL-4 microfilm processor	1
7. Light Pen/Bar Code Scanner	
8. Instant replay unit (TV/VCR), three systems (NTSC/PAL/SECAM)	1
9. Punch and bind machine	1
10. Voltage stabilizers.	9
11. Manual paper cutter.	1
12. Air-conditioner.	2

CD-ROM DATABASES

1. AGRICOLA Database of USDA
2. AGRIS Database of FAO
3. Aquatic Sciences & Fisheries Abstracts (ASFA)
4. Bibliofile (Cataloguing Database)
5. Biological Abstracts

6. CAB Abstracts
7. Compton's Family Encyclopedia
8. CRIS/ICAR Research Projects Database
9. Dissertation Abstracts
10. ECON LIT (Economics Literature)
11. ERIC Database
12. Extension Reference Library - USDA (Prototype)
13. Food, Agriculture and Science: Full text prototype database of selected CGIAR publications
14. Food Sciences & Technology Abstracts (FSTA)
15. Library & Information Science Abstracts (LISA)
16. McGraw-Hill Science & Technology Reference Set (Encyclopedia and Dictionary)
17. NTIS Database
18. OCLC CAT CD450 (Cataloguing Database)
19. Oxford English Dictionary
20. PC-SIG (Software Library)
21. PEST BANK
22. TREE-CD
23. TROPAG & Rural Database

SOFTWARE

1. Inmagic 7.2 Network version for 5 nodes
2. SearchMagic
3. Biblioguide
4. MARK Adaptor
5. FOX-PRO
6. SPIRS retrieval software for SilverPlatter's CD-ROM databases
7. Individual software for various CD-ROM databases.

FURNITURE

	<u>Item</u>	<u>No.</u>
1.	Computer Table	6
2.	Office Tables	3
3.	Revolving Chairs	10
4.	TV/VCR Trolley	1

SUPPLIES

1.	Computer diskette (3.5")	9 boxes
2.	Computer diskette (5.25")	9 boxes
3.	EPSON LQ-1170 ribbon	11
4.	Tonner for CANON copier	7 kits
5.	Microfilm developer/fixer	4 gallons each
6.	AGFA Microfilms (100 ft.)	100 rolls
7.	Tonner Cartridges for LaserJet III	2
9.	Binding spirals	31 boxes
10.	Bindings covers	27 boxes

**A-1: NATIONAL AGRICULTURAL RESEARCH CENTRE,
(LIBRARY), ISLAMABAD.**

EQUIPMENT

	<u>Item</u>	<u>No.</u>
1.	Microcomputer Everex Tempo 386/SX, Super VGA Color Monitor, 101 Keyboard, 40 MB Hard Disk, DOS 5.0	1
2.	EPSON 1170, 24 Pin Dot Matrix Printer, 10 fonts, 6 pitches (sizes)	1
3.	CD-ROM Drive: Todd Industries TCDR-6000	1
4.	Microfiche reader with plain paper copier, dual lens, image rotation, bimodal printer, microfilm attachment	1
5.	Microfiche reader, dual lens, image rotation, microfilm attachment	1
6.	CANON plain paper copier, reduction/enlargement with other basic features.	1
7.	Punch and bind machine	1
8.	Microfiche cabinet	2
9.	Microfiche tray	2
10.	Voltage stabilizers.	4
11.	Manual paper cutter.	1

CD-ROM DATABASES

1. AGRICOLA Database of USDA
2. AGRIS Database of FAO
3. Compton's Family Encyclopedia
4. Food, Agriculture and Science: Full text prototype database of
selected CGIAR publications
5. McGraw-Hill Science & Technology Reference Set
(Encyclopedia and Dictionary)

SOFTWARE

1. Inmagic 7.2
2. SearchMagic
3. SPIRS retrieval software for SilverPlatter's CD-ROM databases
4. Individual software for various CD-ROM databases.

FURNITURE

	<u>Item</u>	<u>No.</u>
1.	Computer table	1
2.	Office table	1
3.	Revolving Chairs	4

SUPPLIES

1.	Computer diskette (3.5")	3 boxes
2.	Computer diskette (5.25")	3 boxes
3.	EPSON LQ-1170 ribbon	3
4.	Tonner for CANON copier	3 kits
5.	Tonner for microfiche reader/printer	10 bottles
6.	Binding spirals	11 boxes
7.	Bindings covers	10 boxes
8.	Microfiche separators	2 boxes

JOURNALS ON MICROFORMS

1. AGRICULTURAL AND FOREST METEOROLOGY, m, US (1990-91: vols. 53-57)
2. AGRICULTURAL ECONOMICS RESEARCH, q, US (1984-85: vols. 36-37)
3. AGRICULTURAL EDUCATION MAGAZINE, m, US (1983-90: vols. 56-62)
4. AGRICULTURAL ENGINEERING, m, US (1984-91: vols. 65-72)
5. AGRICULTURAL SYSTEMS, m, GB (1988-91: vols. 26-37)
6. AGRICULTURAL WATER MANAGEMENT, q, NL (1990: vols. 17-18)
7. AGRICULTURE INTERNATIONAL, m, GB (1984-90: vols. 37-42)
8. AMERICAN BEE JOURNAL, m, US (1984-91: vols. 124-131)
9. AMERICAN ECONOMIC REVIEW, bi-m, US (1985-91: vols. 75-81)
10. AMERICAN JOURNAL OF AGRICULTURAL ECONOMICS, 5/yr, US (1984-90: vols. 66-72)
11. AMERICAN JOURNAL OF MATHEMATICS, bi-m, US (1984-91: vols. 106-113)
12. AMERICAN JOURNAL OF VETERINARY RESEARCH, m, US (1984-91: vols. 45-52)
13. AMERICAN STATISTICAL ASSOCIATION. JOURNAL, q, US (1984-90: vols. 79-85)
14. ANIMAL FEED SCIENCE AND TECHNOLOGY, q, NL (1988-91: vols. 22-35)
15. ANIMAL REPRODUCTION SCIENCE, bi-m, NL (1988-90: vols. 16-23)
16. ANNALS OF SCIENCE, bi-m, GB (1988-91: vols. 45-48)
17. ANNUAL REVIEW OF ENTOMOLOGY, a, US (1985-86: vols. 30-31)
18. ANNUAL REVIEW OF PHYTOPATHOLOGY, a, US (1985-85: vols. 23-24)
19. ANNUAL REVIEW OF PLANT PHYSIOLOGY, a, US (1985-86: vols. 36-37)
20. APPLIED AND ENVIRONMENTAL MICROBIOLOGY, m, US (1984-91: vols. 47-57)
21. AQUACULTURE, m, NL (1988-89: vols. 68-83)
22. AQUACULTURE AND FISHERIES MANAGEMENT, q, GB (1987-91: vols. 18-22)
23. AUSTRALIAN LIBRARY JOURNAL, irreg, AU (1984-89: vols. 33-38)
24. BIO-TECHNOLOGY (INTERNATIONAL JOURNAL FOR INDUSTRIAL BIOLOGY), m, US (1984-91: vols. 2-9)
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A-3: NWFP AGRICULTURAL UNIVERSITY, PESHAWAR

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38. HOUSE AND GARDEN, m, US (1984-91: vols. 156-163)
39. HOUSE BEAUTIFUL, m, US (1984-91: vols. 126-133)
40. INTERNATIONAL JOURNAL OF FORECASTING, irreg, * (1988-91: vols. 4-7)
41. INTERNATIONAL SUGAR JOURNAL, m, GB (1984-91: vols. 86-93)
42. JOURNAL OF AGRICULTURAL ECONOMICS RESEARCH, q, US (1987-90: vols. 39-42)
43. JOURNAL OF AGRICULTURAL SCIENCE, q, GB (1984-91: vols. 102-117)
44. JOURNAL OF APPLIED BACTERIOLOGY, bi-m, GB (1984-90: vols. 56-69)
45. JOURNAL OF BACTERIOLOGY, m, US (1984-91: vols. 157-173)
46. JOURNAL OF BIOLOGICAL CHEMISTRY, irreg, US (1984-91: vols. 259-266)
47. JOURNAL OF ECONOMIC ISSUES, q, US (1984-91: vols. 18-25)
48. JOURNAL OF ECONOMIC LITERATURE, q, US (1984-90: vols. 22-28)
49. JOURNAL OF EDUCATIONAL STATISTICS, q, US (1984-91: vols. 9-16)
50. JOURNAL OF EXPERIMENTAL BOTANY, bi-m, GB (1984-90: vols. 35-41)
51. JOURNAL OF EXTENSION, bi-m, US (1984-91: vols. 22-29)
52. JOURNAL OF INSECT PHYSIOLOGY, m, US (1984-90: vols. 30-36)
53. JOURNAL OF IRRIGATION AND DRAINAGE ENGINEERING, q, US (1984-91: vols. 110-117)
54. JOURNAL OF MEDICAL ENTOMOLOGY, bi-m, US (1984-91: vols. 21-28)
55. JOURNAL OF POLITICAL ECONOMY, bi-m, US (1984-91: vols. 92-99)
56. JOURNAL OF RANGE MANAGEMENT, bi-m, US (1984-91: vols. 37-44)
57. JOURNAL OF READING, 8/yr, US (1984-91: vols. 28-34)
58. JOURNAL OF TERRAMECHANICS, q, US (1984-90: vols. 21-27)
59. JOURNALISM QUARTERLY, q, US (1984-91: vols. 61-68)
60. KANSAS ENTOMOLOGICAL SOCIETY. JOURNAL, q, US (1984-90: vols. 57-63)
61. LAND ECONOMICS, q, US (1984-91: vols. 60-67)
62. LANGUAGE LEARNING, q, US (1984-90: vols. 34-40)
63. LIVESTOCK PRODUCTION SCIENCE, 8/yr, NL (1984-91: vols. 11-29)
64. MODERN LANGUAGE JOURNAL, q, US (1984-91: vols. 68-75)
65. MYCOLOGIA, bi-m, US (1984-90: vols. 76-82)
66. NATIONAL ASSOCIATION OF COLLEGE AND TEACHERS OF AGRICULTURE JOURNAL, q, US (1984-90: vols. 28-34)
67. NETHERLANDS JOURNAL OF AGRICULTURAL SCIENCE, q, NL (1984-90: vols. 32-38)
68. NUTRITION REPORTS INTERNATIONAL, s-a, US (1984-89: vols. 29-40)
69. NUTRITION REVIEWS, m, US (1984-91: vols. 42-49)
70. OXFORD ECONOMIC PAPERS, m, GB (1984-90: vols. 36-42)
71. SOIL AND TILLAGE RESEARCH, 8/yr, NL (1984-90: vols. 4-17)

72. SOIL AND WATER CONSERVATION NEWS, m, US (1984-91: vols. 5-11)
73. SOIL BIOLOGY AND BIOCHEMISTRY, 8/yr, US (1984-91: vols. 16-23)
74. TECHNICAL WRITING TEACHER, irreg, * (1984-91: vols. 11-18)
75. TECHNOMETRICS, q, * (1984-91: vols. 26-33)
76. TESOL QUARTERLY, irreg, * (1984-89: vols. 18-23)
77. WORLD'S POULTRY SCIENCE JOURNAL, q, GB (1984-90: vols. 40-46)

A-4: SINDH AGRICULTURE UNIVERSITY, TANDOJAM

EQUIPMENT

<u>Item</u>	<u>No.</u>
1. Microcomputer Everex Tempo 386/SX, Super VGA Color Monitor, 101 Keyboard, 40 MB Hard Disk, DOS 5.0	1
2. EPSON 1170, 24 Pin Dot Matrix Printer, 10 fonts, 6 pitches (sizes)	1
3. CD-ROM Drive: Todd Industries TCDR-6000	1
4. Microfiche reader with plain paper printer, dual lens, image rotation, bimodal printer, microfilm attachment	1
5. CANON plain paper copier, reduction/enlargement with other basic features	1
6. Instant Replay Unit (TV/VCR), three systems (NTSC/PAL/SECAM)	1
7. Punch and bind machine	1
8. Microfiche cabinet	2
9. Microfiche tray	2
10. Voltage stabilizer	4
11. Manual paper cutter	1

CD-ROM DATABASES

1. CAB Abstracts
2. AGRIS Database of FAO
3. AGRICOLA Database of USDA
4. Dissertation Abstracts
5. ERIC Database

6. Food, Agriculture and Science: Full text prototype database of selected CGIAR publications
7. Compton's Family Encyclopedia
8. McGraw-Hill Science & Technology Reference Set (Encyclopedia and Dictionary)

PAKISTANI DATABASES

1. Pakistan Agriculture Database
2. National Database of Agricultural Journals

SOFTWARE

1. Inmagic 7.2 Network version for 5 nodes
2. SearchMagic
3. Biblioguide
4. SPIRS retrieval software for SilverPlatter's CD-ROM databases
5. Individual software for different CD-ROM databases

FURNITURE

	<u>Item</u>	<u>No.</u>
1.	Computer table	1
2.	Office tables	2
3.	Revolving chairs	4
4.	TV/VCR trolley	1

SUPPLIES

1.	Computer diskette (3.5")	4 boxes
2.	Computer diskette (5.25")	4 boxes

3.	EPSON LQ-1170 ribbon	4
4.	Tonner for CANON copier	3 kits
5.	Tonner for microfiche reader/printer	10 bottles
6.	Binding spirals	10 boxes
7.	Binding covers	10 boxes
8.	Microfiche separators	2 boxes

JOURNALS ON MICROFORMS

1. ACTA PHYSIOLOGICA SCANDINAVICA, m, SE (1984-91: vols. 120-143)
2. AGENTS AND ACTION, irreg, CH (1984-91: vols. 14-34)
3. AGRICULTURAL ADMINISTRATION AND EXTENSION, m, GB (1984-87: vols. 15-27)
4. AGRICULTURAL ECONOMICS RESEARCH, q, US (1984-90: vols. 36-39)
5. AGRICULTURAL EDUCATION MAGAZINE, m, US (1983-90: vols. 56-62)
6. AGRICULTURAL MACHINERY JOURNAL, m, GB (1984-87: vols. 38-41)
7. AGRICULTURAL SYSTEMS, m, GB (1984-91: vols. 13-37)
8. AGRICULTURAL WATER MANAGEMENT, q, NL (1984-89: vols. 8-16)
9. AGRICULTURE ECOSYSTEM ENVIRONMENT, m, NL (1984-91: vols. 11-36)
10. AMERICAN FRUIT GROWER, m, US (1984-91: vols. 104-111)
11. AMERICAN JOURNAL OF CARDIOLOGY, m, US (1984-91: vols. 53-68)
12. AMERICAN JOURNAL OF MATHEMATICS, bi-m, US (1984-91: vols. 106-113)
13. AMERICAN JOURNAL OF PHYSIOLOGY, m, US (1984-91: vols. 246-261)
14. AMERICAN JOURNAL OF SURGERY, m, US (1984-91: vols. 147-62)
15. AMERICAN JOURNAL OF VETERINARY RESEARCH, m, US (1984-91: vols. 45-52)
16. AMERICAN POTATO JOURNAL, m, US (1984-90: vols. 61-67)
17. AMERICAN STATISTICAL ASSOCIATION. JOURNAL, q, US (1984-90: vols. 79-85)
18. AMERICAN VEGETABLE GROWER, m, US (1984-91: vols. 32-39)
19. AMERICAN VETERINARY MEDICAL ASSOCIATION. JOURNAL, bi-m, US (1984-91: vols. 184-199)
20. ANESTHESIA AND ANALGESIA, m, US (1984-91: vols. 63-73)
21. ANNUAL REVIEW OF MICROBIOLOGY, a, US (1985-86: vols. 39-40)
22. ANNUAL REVIEW OF PHARMACOLOGY AND TOXICOLOGY, a, US (1985-86: vols. 25-26)
23. ANNUAL REVIEW OF PHYSIOLOGY, a, US (1985-86: vols. 47-48)
24. ARCHIVES OF SURGERY, m, US (1984-91: vols. 119-126)
25. ARID SOIL RESEARCH AND REHABILITATION, q, US (1987-90: vols.)
26. ATHEROSCLEROSIS, bi-m, NL (1984-88: vols. 50-73)
27. AUTOMOTIVE ENGINEERING, m, US (1984-91: vols. 92-99)
28. BOTANICAL GAZETTE, q, US (1984-90: vols. 145-151)
29. BRITISH JOURNAL OF PHARMACOLOGY, m, GB (1984-90: vols. 81-101)
30. BRITISH JOURNAL OF SOCIAL WORK, q, GB (1984-91: vols. 14-21)
31. CANADIAN JOURNAL OF ANIMAL SCIENCE, s-a, CA (1984-90: vols. 64-70)
32. CANADIAN JOURNAL OF BOTANY, m, CA (1984-90: vols. 62-68)
33. CANADIAN JOURNAL OF COMPARATIVE MEDICINE, m, CA (1984-85: vols. 48-49)
34. CANADIAN JOURNAL OF PHYSIOLOGY AND PHARMACOLOGY, m, CA (1984-90: vols. 62-68)

35. CANADIAN JOURNAL OF VETERINARY RESEARCH, q, CA (1986-91: vols. 50-55)
36. CANADIAN VETERINARY JOURNAL, m, CA (1984-90: vols. 25-31)
37. CELLULAR AND MOLECULAR BIOLOGY, bi-m, GB (1984-90: vols. 30-36)
38. CITRUS INDUSTRY, m, irreg (1984-91: vols. 65-72)
39. COLLEGE MATHEMATICS JOURNAL, irreg, US (1984-91: vols. 15-22)
40. COMPARATIVE IMMUNOLOGY, q, GB (1984-90: vols. 7-13)
41. COMPUTATIONAL STATISTICS AND DATA ANALYSIS , irreg, * (1984-90: vols. 2-10)
42. CROPS PROTECTION, bi-m, GB (1984-90: vols. 3-9)
43. CYTOTECHNOLOGY, irreg, * (1989-90: vols. 3-4)
44. ECOLOGICAL ENTOMOLOGY, q, GB (1984-91: vols. 9-16)
45. ECONOMIC DEVELOPMENT AND CULTURAL CHANGE, q, US (1983-91: vols. 32-39)
46. ECONOMIC INDUSTRY, q, US (1984-91: vols. 22-29)
47. ENVIRONMENTAL AND EXPERIMENTAL BOTANY, q, US (1984-91: vols. 24-31)
48. ENVIRONMENTAL ENTOMOLOGY, bi-m, US (1984-91: vols. 13-20)
49. EUROPEAN JOURNAL OF PHARMACOLOGY, s-m, NL (1984-90: vols. 106-189)
50. EXTENSION REVIEW, q, US (1984-90: vols. 55-60)
51. FASEB JOURNAL, m, US (1987-91: vols. 1-5)
52. FEDERATION PROCEEDINGS, m, US (1984-87: vols. 43-46)
53. FIELD CROPS RESEARCH, m, NL (1984-90: vols. 8-25)
54. FLORIST'S REVIEW, w, US (1983-91: vols. 173-182)
55. GROUND WATER, bi-m, US (1984-91: vols. 22-29)
56. HEREDITY, bi-m, GB (1984-90: vols. 52-65)
57. INTERNATIONAL JOURNAL OF APPLIED ENGINEERING EDUCATION, irreg, * (1985-90: vols. 1-6)
58. INTERNATIONAL JOURNAL OF EPIDEMIOLOGY, q, GB (1984-90: vols. 13-19)
59. INTERNATIONAL JOURNAL OF FORECASTING, irreg, * (1988-91: vols. 4-7)
60. INTERNATIONAL JOURNAL OF IMMUNOPHARMACOLOGY, q, GB (1984-91: vols. 6-13)
61. INTERNATIONAL JOURNAL OF INSECT MORPHOLOGY AND EMBRYOLOGY, bi-m, US (1984-90: vols. 13-19)
62. IRRIGATION JOURNAL, bi-m, US (1984-91: vols. 34-41)
63. JOURNAL OF AGRICULTURAL ECONOMICS RESEARCH, q, US (1987-90: vols. 39-42)
64. JOURNAL OF AGRICULTURAL SCIENCE, q, GB (1984-91: vols. 102-117)
65. JOURNAL OF BIOLOGICAL CHEMISTRY, irreg, US (1984-91: vols. 259-266)
66. JOURNAL OF ECONOMETRICS, m, NL (1984-91: vols. 24-50)
67. JOURNAL OF ECONOMIC BEHAVIOR AND ORGANIZATION, q, NL (1984-91: vols. 5-14)
68. JOURNAL OF ECONOMIC ISSUES, q, US (1984-91: vols. 18-25)

69. JOURNAL OF ECONOMIC LITERATURE, q, US (1984-90: vols. 22-28)
70. JOURNAL OF EDUCATIONAL RESEARCH, bi-m, GB (1983-91: vols. 77-84)
71. JOURNAL OF EXPERIMENTAL BOTANY, bi-m, GB (1984-90: vols. 35-41)
72. JOURNAL OF EXTENSION, bi-m, US (1984-91: vols. 22-29)
73. JOURNAL OF HEAT TRANSFER, q, US (1984-91: vols. 106-113)
74. JOURNAL OF HYDRAULIC ENGINEERING, m, CN (1984-91: vols. 110-117)
75. JOURNAL OF INTERNATIONAL ECONOMICS, bi-m, NL (1984-91: vols. 16-31)
76. JOURNAL OF IRRIGATION AND DRAINAGE ENGINEERING, q, US (1984-91: vols. 110-117)
77. JOURNAL OF MATERIALS PROCESSING TECHNOLOG, irreg, * (1990-91: vols. 21-27)
78. JOURNAL OF MECHANICAL WORKING TECHNOLOG, irreg, * (1984-91: vols. 9-20)
79. JOURNAL OF PLANT GROWTH REGULATION, q, US (1983-91: vols. 2-10)
80. JOURNAL OF PUBLIC ECONOMICS, bi-m, NL (1984-91: vols. 23-46)
81. JOURNAL OF SOIL SCIENCE, q, GB (1984-91: vols. 35-42)
82. JOURNAL OF WATER RESOURCES PLANNING AND MANAGEMENT DIVISION ASCE PROCEEDING, q, US (1984-91: vols. 110-117)
83. LAND ECONOMICS, q, US (1984-91: vols. 60-67)
84. MATHEMATICAL SOCIAL SCIENCES, q, NL (1984-90: vols. 7-20)
85. MECHANISMS AND MACHINE THEORY, bi-m, US (1984-90: vols. 19-25)
86. NATIONAL ASSOCIATION OF COLLEGE AND TEACHERS OF AGRICULTURE. JOURNAL, q, US (1984-90: vols. 28-34)
87. OXFORD BULLETIN OF ECONOMICS AND STATISTICS, q, GB (1984-91: vols. 46-53)
88. PHYSIOLOGICAL ENTOMOLOGY, q, GB (1984-91: vols. 9-16)
89. PHYTOCHEMISTRY, m, US (1984-91: vols. 23-30)
90. PHYTOPATHOLOGY, m, US (1984-89: vols. 74-79)
91. PLANT DISEASE, m, US (1984-91: vols. 68-75)
92. PLANT PATHOLOGY, q, GB (1984-90: vols. 33-39)
93. PLANT SCIENCE, m, !E (1984-90: vols. 33-70)
94. QUARTERLY JOURNAL OF MATHEMATICS, q, GB (1984-90: vols. 35-41)
95. REVIEW OF ECONOMICS AND STATISTICS, q, * (1984-90: vols. 66-72)
96. RURAL SOCIOLOGY, q, US (1984-90: vols. 49-55)
97. SOIL AND TILLAGE RESEARCH, 8/yr, NL (1984-90: vols. 4-17)
98. SUGAR TECHNOLOGY REVIEWS, bi-m, NL (1983-88: vols. 10-14)
99. SYSTEMATIC ENTOMOLOGY, q, GB (1984-91: vols. 9-16)
100. TROPICAL PEST MANAGEMENT, q, GB (1990-91: vols. 36-37)
101. TROPICAL SCIENCE, q, GB (1985-90: vols. 25-30)
102. WEED RESEARCH, bi-m, GB (1984-90: vols. 24-30)
103. WEED SCIENCE, bi-m, US (1984-90: vols. 32-38)

104. WESTERN FRUIT GROWERS, m, * (1984-91: vols. 104-111)
105. WORLD ECONOMY, q, NL (1984-90: vols. 7-13)

**B-1: AYUB AGRICULTURAL RESEARCH INSTITUTE,
FAISALABAD**

EQUIPMENT

<u>Item</u>	<u>No.</u>
1. Microcomputer Everex Tempo 386/SX, Super VGA Color Monitor, 101 Keyboard, 40 MB Hard Disk, DOS 5.0	1
2. EPSON 1170, 24 Pin Dot Matrix Printer, 10 fonts, 6 pitches (sizes)	1
3. CD-ROM Drive: Todd Industries TCDR-6000	1
4. Microfiche reader with plain paper printer, dual lens, image rotation, bimodal printer, microfilm attachment	1
5. CANON plain paper copier, reduction/enlargement with other basic features	2
6. Instant Replay Unit (TV/VCR), three systems (NTSC/PAL/SECAM)	1
7. Punch and bind machine	1
8. Microfiche cabinet	1
9. Microfiche tray	1
10. Voltage stabilizer	4
11. Manual paper cutter	1

CD-ROM DATABASES

1. AGRIS Database of FAO
2. AGRICOLA Database of USDA
3. Food, Agriculture and Science: Full text prototype database of
selected CGIAR publications
4. Compton's Family Encyclopedia.
5. McGraw-Hill Science & Technology Reference Set
(Encyclopedia and Dictionary)

PAKISTANI/PARC DATABASES

1. Pakistan Agriculture Database.
2. National Database of Agricultural Journals.

SOFTWARE

1. Inmagic 7.2
2. SearchMagic
3. SPIRS retrieval software for SilverPlatter's CD-ROM databases
4. Individual software for different CD-ROM databases

FURNITURE

	<u>Item</u>	<u>No.</u>
1.	Computer table	1
2.	Office tables	2
3.	Revolving chairs	4
4.	TV/VCR trolley	1

SUPPLIES

1.	Computer diskette (3.5")	3 boxes
2.	Computer diskette (5.25")	3 boxes
3.	EPSON LQ-1170 ribbon	3
4.	Tonner for CANON copier	3 kits
5.	Tonner for microfiche reader/printer	10 bottles
6.	Binding spirals	5 boxes
7.	Binding covers	6 boxes
8.	Microfiche Separators	1 box

JOURNALS ON MICROFORMS

1. AGRICULTURAL ENGINEERING, m, US (1984-1991: vols. 65-72)
2. AGRICULTURAL RESEARCH, m, US (1983-1990: vols. 32-38)
3. AGRICULTURAL SYSTEMS, m, GB (1984-1991: vols. 13-37)
4. AGRICULTURAL WASTES, m, GB (1984-86: vols. 9-18)
5. AGRICULTURAL WATER MANAGEMENT, q, NL (1984-1990: vols. 8-18)
6. AGRICULTURE ECOSYSTEM ENVIRONMENT, m, NL (1984-1991: vols. 11-36)
7. AGRICULTURE INTERNATIONAL, m, GB (1985-1990: vols. 37-42)
8. AMERICAN ENTOMOLOGIST, q, US (1990: vol. 36)
9. AMERICAN POTATO JOURNAL, m, US (1984-1990: vols. 61-67)
10. ANALYTICAL CHEMISTRY, m, US (1984-1990: vols. 56-62)
11. BIOCHEMISTRY AND CELL BIOLOGY, m, CA (1986-1990: vols. 64-68)
12. BIOLOGICAL WASTES, q, GB (1987-1990: vols. 19-34)
13. CANADIAN ENTOMOLOGIST, m, CA (1984-1991: vols. 116-123)
14. CANADIAN JOURNAL OF BIOCHEMISTRY AND CELL BIOLOGY, m, CA (1984-1985: vols. 62-63)
15. CANADIAN JOURNAL OF BOTANY, m, CA (1984-1990: vols. 62-68)
16. CANADIAN JOURNAL OF PLANT SCIENCE, bi-m, CA (1984-1991: vols. 64-71)
17. CANADIAN JOURNAL OF SOIL SCIENCE, m, CA (1984-1991: vols. 64-71)
18. CEREAL CHEMISTRY, bi-m, US (1984-1991: vols. 61-68)
19. CHEMISTRY AND INDUSTRY, s-a, GB (1989-1991: vols. 89-91)
20. CITRUS INDUSTRY, m, * (1984-1991: vols. 65-72)
21. CURRENT ADVANCES IN PLANT SCIENCE, m, GB (1984-1991: vols. 16-23)
22. DATA PROCESSING, m, GB (1984-1987: vols. 26-86)
23. ECONOMIC BOTANY, q, GB (1984-1990: vols. 38-44)
24. ENTOMOLOGICAL SOCIETY OF AMERICA. BULLETIN, q, US (1984-1989: vols. 30-35)
25. ENVIRONMENTAL AND EXPERIMENTAL BOTANY, q, US (1984-1991: vols. 24-31)
26. EXPERIMENTAL AGRICULTURE, q, GB (1984-1991: vols. 20-27)
27. FERTILIZER RESEARCH, bi-m, NL (1989-1990: vols. 20-23)
28. FOOD MANUFACTURE, m, GB (1984-1990: vols. 59-65)
29. FOOD TECHNOLOGY, m, US (1984-1991: vols. 38-45)
30. GENETICAL RESEARCH, bi-m, GB (1984-1991: vols. 43-58)
31. GENETICS, m, GB (1984-1991: vols. 106-129)
32. INFORMATION AND SOFTWARE TECHNOLOGY, irreg, * (1987-1990: vols. 29-32)

33. INTERNATIONAL SUGAR JOURNAL, m, GB (1984-1991: vols. 86-93)
34. JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY, bi-m, US
(1984-1990: vols. 32-38)
35. JOURNAL OF AGRICULTURAL SCIENCE, q, GB (1984-1991: vols. 102-117)
36. JOURNAL OF ANIMAL ECOLOGY, 3/yr, GB (1984-1991: vols. 53-60)
37. JOURNAL OF APPLIED ECOLOGY, 3/yr, GB (1984-1991: vols. 21-28)
38. JOURNAL OF DAIRY SCIENCE, m, US (1984-1990: vols. 67-73)
39. JOURNAL OF ECOLOGY, 3/yr, GB (1984-1990: vols. 72-78)
40. JOURNAL OF ECONOMIC ENTOMOLOGY, bi-m, US (1984-1991: vols. 77-84)
41. JOURNAL OF EXPERIMENTAL BOTANY, bi-m, GB (1984-1990: vols. 35-41)
42. JOURNAL OF FOOD SCIENCE, bi-m, US (1984-1991: vols. 49-56)
43. JOURNAL OF HEREDITY, bi-m, US (1984-1990: vols. 75-81)
44. JOURNAL OF NUTRITION, m, US (1984-1990: vols. 114-120)
45. MYCOLOGIA, bi-m, US (1984-1990: vols. 76-82)
46. NETHERLANDS JOURNAL OF AGRICULTURAL SCIENCE, q, NL (1984-1990 vols. 32-38)
47. NITROGEN, bi-m, GB (1984-1990: issues 147-188)
48. PHYTOCHEMISTRY, m, US (1984-1991: vols. 23-30)
49. PHYTOPATHOLOGY, m, US (1984-1990: vols. 74-80)
50. PLANT PATHOLOGY, q, GB (1984-1990: vols. 33-39)
51. PLANT PHYSIOLOGY, m, US (1984-1990: vols. 74-94)
52. POULTRY DIGEST, irreg, US (1984-1990: vols. 43-49)
53. POWER FARMING, (AMJ) m, GB (1984-1990: vols. 63-70)
54. SCIENTIFIC AMERICAN, m, US (1984-1991: vols. 250-265)
55. SOIL AND TILLAGE RESEARCH, 8/yr, NL (1984-1990: vols. 4-17)
56. WEED RESEARCH, bi-m, GB (1984-1990: vols. 24-30)
57. ZOOLOGICAL RECORD, a, GB (1984-1990: vols. 121-126)

**B-2: FACULTY OF AGRICULTURE, GOMAL UNIVERSITY,
D.I. KHAN**

EQUIPMENT

<u>Item</u>	<u>No.</u>
1. Microcomputer Everex Tempo 386/SX, Super VGA Color Monitor, 101 Keyboard, 40 MB Hard Disk, DOS 5.0	1
2. EPSON 1170, 24 Pin Dot Matrix Printer, 10 fonts, 6 pitches (sizes)	1
3. CD-ROM Drive: Todd Industries TCDR-6000	1
4. Microfiche reader with plain paper printer, dual lens, image rotation, bimodal printer, microfilm attachment	1
5. Microfiche reader, dual lens, image rotation, microfilm attachment	1
6. CANON plain paper copier, reduction/enlargement with other basic features	1
7. Instant Replay Unit (TV/VCR), three systems (NTSC/PAL/SECAM)	1
8. Punch and bind machine	1
9. Microfiche cabinet	1
10. Microfiche tray	1
11. Voltage stabilizer	5
12. Manual paper cutter	1
13. Air-conditioner	1

CD-ROM DATABASES

1. AGRIS Database of FAO
2. AGRICOLA Database of USDA
3. Food, Agriculture and Science: Full text prototype database of

selected CGIAR publications

4. Compton's Family Encyclopedia
5. McGraw-Hill Science & Technology Reference Set
(Encyclopedia and Dictionary)

PAKISTANI/PARC DATABASES

1. Pakistan Agriculture Database
2. National Database of Agricultural Journals

SOFTWARE

1. Inmagic 7.2
2. SearchMagic
3. SPIRS retrieval software for SilverPlatter's CD-ROM databases
4. Individual software for different CD-ROM databases

FURNITURE

<u>Item</u>	<u>No.</u>
1. Computer table	1
2. Office tables	2
3. Revolving chairs	4
4. TV/VCR trolley	1

SUPPLIES

1. Computer diskette (3.5")	3 boxes
2. Computer diskette (5.25")	3 boxes
3. EPSON LQ-1170 ribbon	3

4.	Tonner for CANON copier	3 kits
5.	Tonner for microfiche reader/printer	10 bottles
6.	Binding spirals	5 boxes
7.	Binding covers	6 boxes
8.	Microfiche separators	1 box

SPACE RENOVATION

Complete space renovation including mason work, wood work and electrification was undertaken by the MART Project.

JOURNALS ON MICROFORMS

1. AGRICULTURAL ENGINEER, q, GB (1989: vol. 44)
2. AGRICULTURAL ENGINEERING, m, US (1984-91: vols. 65-72)
3. AGRICULTURAL WASTES, m, GB (1984-87: vols. 9-22)
4. AMERICAN ENTOMOLOGIST, q, US (1990: vol. 36)
5. AMERICAN JOURNAL OF AGRICULTURAL ECONOMICS, 5/yr, US (1984-90: vols. 66-72)
6. AMERICAN JOURNAL OF CLINICAL NUTRITION, m, US (1984-91: vols. 39-54)
7. AMERICAN JOURNAL OF ECONOMICS AND SOCIOLOGY, q, US (1984-91: vols. 43-50)
8. AMERICAN POTATO JOURNAL, m, US (1984-90: vols. 61-67)
9. AMERICAN VEGETABLE GROWER, m, US (1984-91: vols. 32-39)
10. ANNUAL REVIEW OF ENTOMOLOGY, a, US (1985-86: vols. 30-31)
11. BIOLOGICAL WASTES, q, GB (1988-90: vols. 23-34)
12. BIOLOGY AND FERTILITY OF SOIL, q, DE (1987-90: vols. 5-10)
13. BOTANICAL GAZETTE, q, US (1984-90: vols. 145-151)
14. BRITISH JOURNAL OF NUTRITION, bi-m, GB (1985-91: vols. 53-66)
15. CANADIAN ENTOMOLOGIST, m, CA (1984-91: vols. 116-123)
16. CANADIAN JOURNAL OF SOIL SCIENCE, q, CA (1984-91: vols. 64-71)
17. CEREAL CHEMISTRY, bi-m, US (1984-91: vols. 61-68)
18. CURRENT ADVANCES IN GENETICS AND MOLECULAR BIOLOGY, irreg, GB (1984-90: vols. 1-7)
19. ENTOMOLOGICAL SOCIETY OF AMERICA. ANNALS, bi-m, US (1984-91: vols. 77-84)
20. ENTOMOLOGICAL SOCIETY OF AMERICA. BULLETIN, q, US (1984-89: vols. 30-35)
21. ENVIRONMENTAL ENTOMOLOGY, bi-m, US (1984-91: vols. 13-20)
22. FARM CHEMICALS, m, US (1984-91: vols. 147-154)
23. FOOD CHEMISTRY, q, GB (1984-90: vols. 13-38)
24. FOOD TECHNOLOGY, m, US (1984-91: vols. 38-45)
25. FRUIT VARIETIES JOURNAL, q, US (1984-91: vols. 38-45)
26. GARDEN, bi-m, US (1984-91: vols. 109-116)
27. GENETICS, SELECTION, EVOLUTION, q, FR (1989-90: vols. 21-22)
28. HEREDITY, bi-m, GB (1984-90: vols. 52-65)
29. HORTICULTURE, m, US (1984-91: vols. 62-69)
30. INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY, bi-m, GB (1987-90: vols. 22-25)
31. IRRIGATION SCIENCE, q, DE (1984-91: vols. 5-12)
32. JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY, bi-m, US (1984-90: vols. 32-38)

33. JOURNAL OF AGRICULTURAL SCIENCE, q, GB (1984-91: vols. 102-117)
34. JOURNAL OF ECONOMIC ENTOMOLOGY, bi-m, US (1984-91: vols. 77-84)
35. JOURNAL OF FOOD SCIENCE, bi-m, US (1984-91: vols. 49-56)
36. JOURNAL OF FOOD TECHNOLOGY, bi-m, GB (1984-86: vols. 19-21)
37. JOURNAL OF INSECT PHYSIOLOGY, m, US (1984-90: vols. 30-36)
38. JOURNAL OF MEDICAL ENTOMOLOGY, bi-m, US (1984-91: vols. 21-28)
39. JOURNAL OF NUTRITION, m, US (1984-90: vols. 114-120)
40. JOURNAL OF SOIL AND WATER CONSERVATION, bi-m, US (1984-91: vols. 39-46)
41. NATURE, w, GB (1984-91: vols. 307-354)
42. NEWZEALAND JOURNAL OF AGRICULTURE, irreg, NZ (1984-89: vols. 148-154)
43. NEW SCIENTIST, w, GB (1984-90: vols. 101-128)
44. ORGANIC GARDENING, m, * (1984-91: vols. 31-38)
45. PLANT AND SOIL, m, NL (1989-90: vols. 119-120)
46. PLANT PATHOLOGY, q, GB (1984-90: vols. 33-39)
47. PLANT PHYSIOLOGY, m, US (1984-90: vols. 74-94)
48. PLANT SCIENCE BULLETIN, q, US (1984-90: vols. 30-36)
49. RODALE'S ORGANIC GARDENING, m, US (1985-88: vols. 32-35)
50. SCIENTIFIC AMERICAN, m, US (1984-91: vols. 250-265)
51. SEED WORLD, 13/yr, US (1984-91: vols. 122-129)
52. SOIL BIOLOGY AND BIOCHEMISTRY, 8/yr, US (1984-91: vols. 16-23)
53. SYSTEMATIC ENTOMOLOGY, q, GB (1984-91: vols. 9-16)
54. TROPICAL PEST MANAGEMENT, q, GB (1988-91: vols. 34-37)
55. WEED RESEARCH, bi-m, GB (1984-90: vols. 24-30)
56. WEED SCIENCE, bi-m, US (1984-90: vols. 32-38)

B-3: AGRICULTURAL RESEARCH INSTITUTE, SARIAB, QUETTA

EQUIPMENT

<u>Item</u>	<u>No.</u>
1. Microcomputer Everex Tempo 386/SX, Super VGA Color Monitor, 101 Keyboard, 40 MB Hard Disk, DOS 5.0	1
2. EPSON 1170, 24 Pin Dot Matrix Printer, 10 fonts, 6 pitches (sizes)	1
3. CD-ROM Drive: Todd Industries TCDR-6000	1
4. Microfiche reader with plain paper printer, dual lens, image rotation, bimodal printer, microfilm attachment	1
5. CANON plain paper copier, reduction/enlargement with other basic features	1
6. Instant Replay Unit (TV/VCR), three systems (NTSC/PAL/SECAM)	1
7. Punch and bind machine	1
8. Microfiche cabinet	1
9. Microfiche tray	1
10. Voltage stabilizer	4
11. Manual paper cutter	1

CD-ROM DATABASES

1. AGRIS Database of FAO
2. AGRICOLA Database of USDA
3. Food, Agriculture and Science: Full text prototype database of
selected CGIAR publications
4. Compton's Family Encyclopedia
5. McGraw-Hill Science & Technology Reference Set
(Encyclopedia and Dictionary)

PAKISTANI/PARC DATABASES

1. Pakistan Agriculture Database
2. National Database of Agricultural Journals

SOFTWARE

1. Inmagic 7.2
2. SearchMagic
3. SPIRS retrieval software for SilverPlatter's CD-ROM databases
4. Individual software for different CD-ROM databases

FURNITURE

	<u>Item</u>	<u>No.</u>
1.	Computer table	1
2.	Office tables	2
3.	Revolving chairs	4
4.	TV/VCR trolley	1

SUPPLIES

1.	Computer diskette (3.5")	3 boxes
2.	Computer diskette (5.25")	3 boxes
3.	EPSON LQ-1170 ribbon	3
4.	Tonner for CANON copier	3 kits
5.	Tonner for microfiche readers/printer	10 bottles
6.	Binding spirals	5 boxes
7.	Binding covers	6 boxes
8.	Microfiche separators	1 box

JOURNALS ON MICROFORMS

1. AGRICULTURAL ECONOMICS RESEARCH, q, US (1984-87: vols.36-39)
2. AGRICULTURAL RESEARCH, m, US (1983-90: vols.32-38)
3. AGRICULTURAL WATER MANAGEMENT, q, NL (1984-90: vols.8-12)
4. AGRICULTURE ECOSYSTEM ENVIRONMENT, m, NL (1984-91: vols.11-36)
5. AMERICAN JOURNAL OF AGRICULTURAL ECONOMICS, 5/yr, US (1984-90: vols. 66-72)
6. AMERICAN POTATO JOURNAL, m, US (1984-89: vols.61-66)
7. AMERICAN STATISTICIAN, q, US (1984-91: vols.38-45)
8. ANNUAL REVIEW OF ENTOMOLOGY, a, US (1985-86: vols.30-31)
9. ANNUAL REVIEW OF PHYTOPATHOLOGY, a, US (1985-86: vols.23-24)
10. ANNUAL REVIEW OF PLANT PHYSIOLOGY, a, US (1985-86: vols. 36-37)
11. AUSTRALIAN JOURNAL OF SOIL RESEARCH, q, AU (1990: vol. 28)
12. CANADIAN ENTOMOLOGIST, m, CA (1984-91: vols.116-123)
13. CANADIAN JOURNAL OF AGRICULTURAL ECONOMICS, 3/yr, CA (1984-89: vols. 32-37)
14. CANADIAN JOURNAL OF MICROBIOLOGY, m, CA (1984-89: vols.30-35)
15. CANADIAN JOURNAL OF PLANT SCIENCE, bi-m, CA (1984-91: vols. 64-71)
16. CANADIAN JOURNAL OF SOIL SCIENCE, q, CA (1984-91: vols.64-71)
17. ECONOMIST, w, GB (1984-91: vols. 290-321)
18. ENTOMOLOGICAL SOCIETY OF AMERICA. ANNALS, bi-m, US (1984-91: vols. 77-84)
19. ENVIRONMENTAL ENTOMOLOGY, bi-m, US (1984-91: vols.13-20)
20. EXTENSION REVIEW, q, US (1984-90: vols.55-60)
21. FERTILIZER RESEARCH, bi-m, NL (1989-90: vols. 16-23)
22. FIELD CROPS RESEARCH, m, NL (1984-90: vols. 8-25)
23. INDIAN JOURNAL OF AGRICULTURAL SCIENCE, m, IN (1984-91: vols. 54-61)
24. JOURNAL OF AGRICULTURAL ECONOMICS RESEARCH, q, US (1989-90: vols. 41-42)
25. JOURNAL OF AGRICULTURAL SCIENCE, q, GB (1984-91: vols. 102-117)
26. JOURNAL OF BACTERIOLOGY, m, US (1984-90: vols. 157-172)
27. JOURNAL OF CONSUMER AFFAIRS, s-a, US (1984-91: vol. 18-25)
28. JOURNAL OF ECONOMIC ENTOMOLOGY, bi-m, US (1984-91: vols. 77-84)
29. JOURNAL OF SOIL AND WATER CONSERVATION, bi-m, US (1984-91: vols. 39-46)
30. JOURNAL OF SOIL SCIENCE, q, GB (1984-91: vols. 35-42)
31. JOURNAL OF STORED PRODUCTS RESEARCH, q, US (1984-91: vols. 20-27)
32. MYCOLOGICAL RESEARCH, m, GB (1989-90: vols. 92-94)
33. PHYTOPATHOLOGY, m, US (1984-90: vols. 74-80)
34. PLANT DISEASE, m, US (1984-91: vols. 68-75)

35. PLANT PATHOLOGY, q, GB (1984-90: vols. 33-39)
36. RURAL SOCIOLOGY, q, US (1984-90: vols. 49-55)
37. SOUTHERN JOURNAL OF AGRICULTURAL ECONOMICS, a, US (1984-90: vols. 16-22)
38. TROPICAL AGRICULTURE, q, GB (1984-91: vols. 61-68)
39. WEED RESEARCH, bi-m, GB (1984-90: vols. 24-30)
40. WEED SCIENCE, bi-m, US (1984-90: vols. 32-38)

B-4: PAKISTAN FOREST INSTITUTE, PESHAWAR

EQUIPMENT

	<u>Item</u>	<u>No.</u>
1.	Microcomputer Everex Tempo 386/SX, Super VGA Color Monitor, 101 Keyboard, 40 MB Hard Disk, DOS 5.0	1
2.	EPSON 1170, 24 Pin Dot Matrix Printer, 10 fonts, 6 pitches (sizes)	1
3.	CD-ROM Drive: Todd Industries TCDR-6000	1
4.	Microfiche reader with plain paper printer, dual lens, image rotation, bimodal printer, microfilm attachment	1
5.	Microfiche reader, dual lens, image rotation, microfilm attachment	1
6.	CANON plain paper copier, reduction/enlargement with other basic features	1
7.	Instant Replay Unit (TV/VCR), three systems (NTSC/PAL/SECAM)	1
8.	Punch and bind machine	1
9.	Microfiche cabinet	1
10.	Microfiche tray	1
11.	Voltage stabilizer	5
12.	Air-conditioner	1

CD-ROM DATABASES

1. AGRIS Database of FAO
2. AGRICOLA Database of USDA
3. Food, Agriculture and Science: Full text prototype database of
selected CGIAR publications

4. Compton's Family Encyclopedia
5. McGraw-Hill Science & Technology Reference Set
(Encyclopedia and Dictionary)

PAKISTANI/PARC DATABASES

1. Pakistan Agriculture Database
2. National Database of Agricultural Journals

SOFTWARE

1. Inmagic 7.2
2. SearchMagic
3. SPIRS retrieval software for SilverPlatter's CD-ROM databases
4. Individual software for different CD-ROM databases

FURNITURE

<u>Item</u>	<u>No.</u>
1. Computer table	1
2. Office tables	2
3. Revolving chairs	4
4. TV/VCR trolley	1

SUPPLIES

1. Computer diskette (3.5")	3 boxes
2. Computer diskette (5.25")	3 boxes
3. EPSON LQ-1170 ribbon	3
4. Toner for CANON copier	3 kits

- | | | |
|----|--------------------------------------|------------|
| 5. | Tonner for microfiche reader/printer | 10 bottles |
| 6. | Binding spirals | 5 boxes |
| 7. | Binding covers | 6 boxes |
| 8. | Microfiche separators | 1 box |

JOURNALS ON MICROFORMS

1. AGROFORESTRY SYSTEM, q, NL (1989-91: vols. 8-13)
2. AMERICAN FORESTS, m, US (1984-91: vols. 90-97)
3. BIOSCIENCE, m, US (1984-91: vols. 34-41)
4. CANADIAN JOURNAL OF FOREST RESEARCH, q, CA (1984-90: vols. 14-20)
5. CONSERVATION BIOLOGY, irreg, US (1987-91: vols. I-5)
6. ECONOMIC BOTANY, q, GB (1984-90: vols. 38-44)
7. ENVIRONMENTAL MANAGEMENT, bi-m, US (1984-91: vols. 8-15)
8. FOREST AND CONSERVATION HISTORY, irreg, * (1984-91: vols. 28-35)
9. FOREST ECOLOGY AND MANAGEMENT, q, NL (1983-91: vols. 7-38)
10. FOREST PRODUCTS JOURNAL, m, US (1984-91: vols. 34-41)
11. FOREST SCIENCE, q, US (1984-90: vols. 30-36)
12. FORESTRY, s-a, US (1984-91: vols. 57-64)
13. JOURNAL OF FORESTRY, m, US (1984-91: vols. 82-89)
14. JOURNAL OF INSECT PHYSIOLOGY, m, US (1984-90: vols. 30-36)
15. JOURNAL OF RANGE MANAGEMENT, bi-m, US (1984-91: vols. 37-44)
16. JOURNAL OF WILDLIFE MANAGEMENT, q, US (1984-91: vols. 48-55)
17. LANDSCAPE JOURNAL, s-a, US (1984-91: vols. 3-10)
18. NATURE, w, GB (1984-91: vols. 307-354)
19. PARKS AND RECREATION, m, US (1984-91: vols. 19-26)
20. PLANT PHYSIOLOGY, m, US (1984-90: vols. 74-94)
21. PUBLIC ADMINISTRATION, q, GB (1984-90: vols. 62-68)

B-5: COLLEGE OF VETERINARY SCIENCES, LAHORE

EQUIPMENT

	<u>Item</u>	<u>No.</u>
1.	Microcomputer Everex Tempo 386/SX, Super VGA Color Monitor, 101 Keyboard, 40 MB Hard Disk, DOS 5.0	1
2.	EPSON 1170, 24 Pin Dot Matrix Printer, 10 fonts, 6 pitches (sizes)	1
3.	CD-ROM Drive: Todd Industries TCDR-6000	1
4.	Microfiche reader with plain paper printer, dual lens, image rotation, bimodal printer, microfilm attachment	1
5.	Microfiche reader, dual lens, image rotation, microfilm attachment	1
6.	CANON plain paper copier, reduction/enlargement with other basic features	1
7.	Instant Replay Unit (TV/VCR), three systems (NTSC/PAL/SECAM)	1
8.	Punch and bind machine	1
9.	Microfiche cabinet	1
10.	Microfiche tray	1
11.	Voltage stabilizer	5
12.	Manual paper cutter	1
13.	Air-conditioner	1

CD-ROM DATABASES

1. Vet-Beast Database from CAB International
2. AGRIS Database of FAO
3. AGRICOLA Database of USDA

4. Food, Agriculture and Science: Full text prototype database of selected CGIAR publications
5. Compton's Family Encyclopedia.
6. McGraw-Hill Science & Technology Reference Set (Encyclopedia and Dictionary)

PAKISTANI/PARC DATABASES

1. Pakistan Agriculture Database
2. National Database of Agricultural Journals

SOFTWARE

1. Inmagic 7.2
2. SearchMagic
3. SPIRS retrieval software for SilverPlatter's CD-ROM databases
4. Individual software for different CD-ROM databases

FURNITURE

<u>Item</u>	<u>No.</u>
1. Computer table	1
2. Office tables	2
3. Revolving chairs	4
4. TV/VCR trolley	1

SUPPLIES

1. Computer diskette (3.5")	3 boxes
2. Computer diskette (5.25")	3 boxes
3. EPSON LQ-1170 ribbon	3

4.	Tonner for CANON copier	3 kits
5.	Tonner for microfiche reader/printer	10 bottles
6.	Binding spirals	5 boxes
7.	Binding covers	6 boxes
8.	Microfiche separators	1 box

SPACE RENOVATION

Complete space renovation including mason work, wood work, windows installation, florescent tubes, ceiling fans, electrification, false ceiling, floor tiles, etc., was undertaken by the MART Project.

JOURNALS ON MICROFORMS

1. AGRICULTURAL ADMINISTRATION AND EXTENSION, m, GB (1984-90: vols. 15-30)
2. AGRICULTURAL ECONOMICS RESEARCH, q, US (1984-87: vols. 36-39)
3. AGRICULTURAL EDUCATION MAGAZINE, m, US (1983-90: vols. 56-62)
4. AGRICULTURAL SYSTEMS, m, GB (1984-91: vols. 13-37)
5. AMERICAN JOURNAL OF MATHEMATICS, bi-m, US (1984-91: vols. 106-113)
6. AMERICAN JOURNAL OF VETERINARY RESEARCH, m, US (1984-91: vols. 45-52)
7. AMERICAN STATISTICAL ASSOCIATION. JOURNAL, q, US (1984-90: vols. 79-85)
8. ANIMAL REPRODUCTION SCIENCE, bi-m, NL (1983-90: vols. 6-23)
9. AVIAN DISEASES, q, US (1984-91: vols. 28-35)
10. BIO-TECHNOLOGY (INTERNATIONAL JOURNAL FOR INDUSTRIAL BIOLOGY), m, US (1984- 91: vols. 2-9)
11. COLLEGE MATHEMATICS JOURNAL, irreg, US (1984-91: vols. 15-22)
12. ECONOMIC DEVELOPMENT AND CULTURAL CHANGE, q, US (1983-91: vols. 32-39)
13. JOURNAL ON REVIEW, q, US (1984-90: vols. 55-60)
14. GENETICS, m, GB (1984-91: vols. 106-129)
15. HEREDITY, bi-m, GB (1984-90: vols. 52-65)
16. IMMUNOGENETICS, bi-m, US (1984-90: vols. 19-32)
17. INDIAN JOURNAL OF ANIMAL SCIENCES, m, IN (1984-91: vols. 54-61)
18. INTERNATIONAL JOURNAL FOR PARASITOLOGY, q, GB (1984-90: vols. 4-20)
19. JOURNAL OF AGRICULTURAL ECONOMICS RESEARCH, q, US (1987-90: vols. 39-42)
20. JOURNAL OF ANIMAL SCIENCE, m, US (1984-91: vols. 58-69)
21. JOURNAL OF APPLIED BACTERIOLOGY, bi-m, GB (1984-90: vols. 56-69)
22. JOURNAL OF DAIRY SCIENCE, m, US (1984-90: vols. 67-73)
23. JOURNAL OF ECONOMIC ISSUES, q, US (1984-91: vols. 18-25)
24. JOURNAL OF ECONOMIC LITERATURE, q, US (1984-90: vols. 22-28)
25. JOURNAL OF EXTENSION, bi-m, US (1984-91: vols. 22-29)
26. JOURNAL OF VETERINARY PHARMACOLOGY AND THERAPEUTICS, bi-m, GB (1984-91: vols. 7-14)
27. LAND ECONOMICS, q, US (1984-91: vols. 60-67)
28. NATIONAL ASSOCIATION OF COLLEGE AND TEACHERS OF AGRICULTURE. JOURNAL, q, US (1984-90: vols. 28-34)
29. NATURE, w, GB (1984-91: vols. 307-354)
30. NEW SCIENTIST, w, GB (1984-90: vols. 101-348)
31. POULTRY SCIENCE, m, US (1984-90: vols. 63-69)
32. RESEARCH IN VETERINARY SCIENCE, bi-m, GB (1984-90: vols. 36-49)

33. SCIENCE, q, US (1984-90: vols. 223-250)
34. THE AMERICAN ANIMAL HOSPITAL ASSOCIATION. JOURNAL, bi-m, US (1984-90: vols.20-26)
35. VETERINARY CLINICS OF NORTH AMERICA. SMALL ANIMAL PRACTICE, q, US (1984-90: vols. 14-20)
36. VETERINARY IMMUNOLOGY AND IMMUNOPATHOLOGY, m, NL (1984-91: vols. 5-29)
37. VETERINARY MICROBIOLOGY, bi-m, NL (1984-91: vols. 10-29)
38. VETERINARY PARASITOLOGY, 8/yr, NL (1984-91: vols. 8-41)

B-6: BARANI AGRICULTURAL COLLEGE, RAWALPINDI

EQUIPMENT

<u>Item</u>	<u>No.</u>
1. Microcomputer Everex Tempo 386/SX, Super VGA Color Monitor, 101 Keyboard, 40 MB Hard Disk, DOS 5.0	1
2. EPSON 1170, 24 Pin Dot Matrix Printer, 10 fonts, 6 pitches (sizes)	1
3. CD-ROM Drive: Todd Industries TCDR-6000	1
4. Microfiche reader with plain paper printer, dual lens, image rotation, bimodal printer, microfilm attachment	1
5. Microfiche reader, dual lens, image rotation, microfilm attachment	1
6. CANON plain paper copier, reduction/enlargement with other basic features	1
7. Instant Replay Unit (TV/VCR), three systems (NTSC/PAL/SECAM)	1
8. Punch and bind machine	1
9. Microfiche cabinet	1
10. Microfiche tray	1
11. Voltage stabilizer	5
12. Manual paper cutter.	1
13. Air-conditioner	1

CD-ROM DATABASES

1. CAB Abstracts
2. AGRIS Database of FAO
3. AGRICOLA Database of USDA

4. Food, Agriculture and Science: Full text prototype database of selected CGIAR publications
5. Compton's Family Encyclopedia.
6. McGraw-Hill Science & Technology Reference Set (Encyclopedia and Dictionary)

PAKISTANI/PARC DATABASES

1. Pakistan Agriculture Database
2. National Database of Agricultural Journals

SOFTWARE

1. Inmagic 7.2
2. SearchMagic
3. SPIRS retrieval software for SilverPlatter's CD-ROM databases
4. Individual software for different CD-ROM databases

FURNITURE

	<u>Item</u>	<u>No.</u>
1.	Computer table	1
2.	Office tables	2
3.	Revolving chairs	4
4.	TV/VCR trolley	1

SUPPLIES

1.	Computer diskette (3.5")	3 boxes
2.	Computer diskette (5.25")	3 boxes

3.	EPSON LQ-1170 ribbon	3
4.	Tonner for CANON copier	3 kits
5.	Tonner for microfiche reader/printer	10 bottles
6.	Binding spirals	5 boxes
7.	Binding covers	6 boxes
8.	Microfiche separators	1 box

JOURNALS ON MICROFORMS

1. AGRICULTURAL ECONOMICS RESEARCH, q, US (1984-87: vols. 36-39)
2. AGRICULTURE ECOSYSTEM ENVIRONMENT, m, NL (1984-91: vols. 11-36)
3. AMERICAN BEE JOURNAL, m, US (1984-91: vols. 124-131)
4. AMERICAN JOURNAL OF CLINICAL NUTRITION, m, US (1984-89: vols. 39-59)
5. AMERICAN JOURNAL OF PHYSIOLOGY, m, US (1984-90: vols. 246-261)
6. APPLIED AND ENVIRONMENTAL MICROBIOLOGY, m, US (1984-91: vols. 47-57)
7. BIOCHEMISTRY AND CELL BIOLOGY, m, CA (1986-90: vols. 64-68)
8. BOTANICAL GAZETTE, q, US (1984-90: vols. 145-151)
9. BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY, m, US (1984-91: vols. 32-47)
10. CANADIAN ENTOMOLOGIST, m, CA (1984-91: vols. 116-123)
11. CANADIAN JOURNAL OF ANIMAL SCIENCE, s-a, CA (1984-90: vols. 64-70)
12. CANADIAN JOURNAL OF BIOCHEMISTRY AND CELL BIOLOGY, m, CA (1984-85: vols. 62-63)
13. CANADIAN JOURNAL OF BOTANY, m, CA (1984-90: vols. 62-68)
14. CANADIAN JOURNAL OF PLANT SCIENCE, bi-m, CA (1984-91: vols. 64-71)
15. CANADIAN JOURNAL OF SOIL SCIENCE, q, CA (1984-91: vols. 64-71)
16. CEREAL CHEMISTRY, bi-m, US (1984-91: vols. 61-68)
17. COMMUNICATION EDUCATION, q, US (1984-91: vols. 33-40)
18. ECOLOGICAL ENTOMOLOGY, q, GB (1984-91: vols. 9-16)
19. ECOLOGY, bi-m, GB (1984-91: vols. 65-72)
20. ENTOMOLOGICAL SOCIETY OF AMERICA. ANNALS, bi-m, US (1984-91: vols. 77-84)
21. ENVIRONMENTAL ENTOMOLOGY, bi-m, US (1984-91: vols. 13-20)
22. EUROPEAN JOURNAL OF BIOCHEMISTRY, bi-m, DE (1984-90: vols. 138-194)
23. EXPERIMENTAL AGRICULTURE, q, GB (1984-91: vols. 20-27)
24. FARM CHEMICALS, m, US (1984-91: vols. 147-154)
25. FOOD TECHNOLOGY, m, US (1984-91: vols. 38-45)
26. FOREST ECOLOGY AND MANAGEMENT, q, NL (1983-91: vols. 7-38)
27. FOREST SCIENCE, q, US (1984-90: vols. 30-36)
28. GLEANINGS IN BEE CULTURE, m, US (1984-91: vols. 112-119)
29. INDIAN JOURNAL OF AGRICULTURAL SCIENCE, m, IN (1984-91: vols. 54-61)
30. JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY, bi-m, US (1984-90: vols. 32-38)
31. JOURNAL OF AGRICULTURAL ECONOMICS RESEARCH, q, US (1987-90: vols. 39-42)
32. JOURNAL OF AGRICULTURAL SCIENCE, q, GB (1984-91: vols. 102-117)
33. JOURNAL OF AMERICAN OIL CHEMISTS SOCIETY, m, US (1984-90: vols. 61-67)

34. JOURNAL OF ANIMAL ECOLOGY, 3/yr, GB (1984-91: vols. 53-60)
35. JOURNAL OF BIOLOGICAL CHEMISTRY, irreg, US (1984-91: vols. 259-266)
36. JOURNAL OF DAIRY RESEARCH, q, GB (1984-91: vols. 51-58)
37. JOURNAL OF ECONOMIC ENTOMOLOGY, bi-m, US (1984-91: vols. 77-84)
38. JOURNAL OF EXPERIMENTAL BOTANY, bi-m, GB (1984-90: vols. 35-41)
39. JOURNAL OF FOOD PROTECTION, m, US (1984-90: vols. 47-53)
40. JOURNAL OF FOOD SCIENCE, bi-m, US (1984-91: vols. 49-56)
41. JOURNAL OF GENERAL PHYSIOLOGY, m, US (1984-91: vols. 83-98)
42. JOURNAL OF HEREDITY, bi-m, US (1984-90: vols. 75-90)
43. JOURNAL OF NUTRITION, m, US (1984-90: vols. 114-120)
44. JOURNAL OF PHYSIOLOGY, m, GB (1984-91: vols. 346-443)
45. JOURNAL OF SOIL AND WATER CONSERVATION, bi-m, US (1984-91: vols. 39-46)
46. NATURE, w, GB (1984-91: vols. 307-354)
47. NEWZEALAND JOURNAL OF AGRICULTURE, m, NZ (1984-89: vols. 148-154)
48. NORTH AMERICAN REVIEW, q, US (1984-90: vols. 269-275)
49. NUTRITION SOCIETY PROCEEDINGS, 3/yr, GB (1986-90: vols. 45-49)
50. PHYTOCHEMISTRY, m, US (1984-91: vols. 23-30)
51. PHYTOPATHOLOGY, m, US (1984-90: vols. 74-80)
52. PLANT PHYSIOLOGY, m, US (1984-90: vols. 74-94)
53. POULTRY SCIENCE, m, US (1984-90: vols. 63-69)
54. RURAL SOCIOLOGY, q, US (1984-90: vols. 49-55)
55. SCIENCE, w, US (1984-90: vols. 223-250)
56. SOCIAL BIOLOGY, q, US (1984-90: vols. 31-37)
57. SOIL BIOLOGY AND BIOCHEMISTRY, 8/yr, US (1984-91: vols. 16-23)
58. TROPICAL AGRICULTURE, q, GB (1984-91: vols. 61-68)
59. WEED RESEARCH, bi-m, GB (1984-90: vols. 24-30)
60. WEED SCIENCE, bi-m, US (1984-90: vols. 32-38)

**B-7: UNIVERSITY COLLEGE OF AGRICULTURE,
RAWALAKOT, AJ&K**

EQUIPMENT

	<u>Item</u>	<u>No.</u>
1.	Microcomputer Everex Tempo 386/SX, Super VGA Color Monitor, 101 Keyboard, 40 MB Hard Disk, DOS 5.0	1
2.	EPSON 1170, 24 Pin Dot Matrix Printer, 10 fonts, 6 pitches (sizes)	1
3.	CD-ROM Drive: Todd Industries TCDR-6000	1
4.	Microfiche reader with plain paper printer, dual lens, image rotation, bimodal printer, microfilm attachment	1
5.	Microfiche reader, dual lens, image rotation, microfilm attachment	1
6.	CANON plain paper copier, reduction/enlargement with other basic features	1
7.	Instant Replay Unit (TV/VCR), three systems (NTSC/PAL/SECAM)	1
8.	Punch and bind machine	1
9.	Microfiche cabinet	1
10.	Microfiche tray	1
11.	Voltage stabilizer	5
12.	Manual paper cutter	1

CD-ROM DATABASES

1. CAB Abstracts
2. AGRIS Database of FAO
3. AGRICOLA Database of USDA
4. Food, Agriculture and Science: Full text prototype database of
selected CGIAR publications

5. Compton's Family Encyclopedia
6. McGraw-Hill Science & Technology Reference Set
(Encyclopedia and Dictionary)

PAKISTANI/PARC DATABASES

1. Pakistan Agriculture Database
2. National Database of Agricultural Journals

SOFTWARE

1. Inmagic 7.2
2. SearchMagic
3. SPIRS retrieval software for SilverPlatter's CD-ROM databases
4. Individual software for different various CD-ROM databases

FURNITURE

<u>Item</u>	<u>No.</u>
1. Computer table	1
2. Office tables	2
3. Revolving chairs	4
4. TV/VCR trolley	1

SUPPLIES

1. Computer diskette (3.5")	3 boxes
2. Computer diskette (5.25")	3 boxes
3. EPSON LQ-1170 ribbon	3
4. Tonner for CANON copier	3 kits

5.	Tonner for microfiche reader/printer	10 bottles
6.	Binding spirals	5 boxes
7.	Binding covers	6 boxes
8.	Microfiche separators	1 box

JOURNALS ON MICROFORMS

1. AGRICULTURAL AND FOREST METEOROLOGY, m, US (1983-91: vols. 29-57)
2. AGRICULTURAL RESEARCH, m, US (1983-89: vols. 32-39)
3. AGRICULTURAL WATER MANAGEMENT, q, NL (1984-90: vols. 8-17)
4. AGRICULTURE INTERNATIONAL, m, GB (1985-90: vols. 37-42)
5. AMERICAN JOURNAL OF VETERINARY RESEARCH, m, US (1984-91: vols. 45-52)
6. AMERICAN POTATO JOURNAL, m, US (1984-90: vols. 61-67)
7. AMERICAN SCIENTIST, bi-m, US (1984-91: vols. 72-79)
8. AMERICAN STATISTICAL ASSOCIATION. JOURNAL, q, US (1984-90: vols. 79-85)
9. ANALYTICAL CHEMISTRY, m, US (1984-90: vols. 56-62)
10. ANIMAL FEED SCIENCE AND TECHNOLOGY, q, NL (1984-91: vols. 10-35)
11. ANIMAL REPRODUCTION SCIENCE, bi-m, NL (1984-90: vols. 6-23)
12. ANNUAL REVIEW OF PLANT PHYSIOLOGY, a, US (1985-86: vols. 36-37)
13. AVIAN DISEASES, q, US (1984-91: vols. 28-35)
14. BIOCHEMISTRY AND CELL BIOLOGY, m, CA (1986-89: vols. 64-67)
15. BIOMETRICS, q, US (1984-89: vols. 40-45)
16. BIOTECHNOLOGY, m, US (1984-91: vols. 2-9)
17. BRITISH JOURNAL OF NUTRITION, bi-m, GB (1985-91: vols. 53-66)
18. CANADIAN ENTOMOLOGIST, m, CA (1984-91: vols. 116-123)
19. CANADIAN JOURNAL OF BIOCHEMISTRY AND CELL BIOLOGY, m, CA (1984-85: vols. 62-63)
20. CANADIAN JOURNAL OF SOIL SCIENCE, q, CA (1984-91: vols. 64-71)
21. CEREAL CHEMISTRY, bi-m, US (1984-91: vols. 61-68)
22. DAIRY FOODS, irreg, US (1986-91: vols. 87-92)
23. ECONOMIC BOTANY, q, GB (1984-90: vols. 38-44)
24. ENTOMOLOGICAL SOCIETY OF AMERICA. ANNALS, bi-m, US (1984-91: vols. 77-84)
25. ENVIRONMENTAL ENTOMOLOGY, bi-m, US (1984-91: vols. 13-20)
26. FARM CHEMICALS, m, US (1984-91: vols. 147-154)
27. FEED MANAGEMENT, m, US (1984-91: vols. 35-42)
28. FERTILIZER RESEARCH, bi-m, NL (1989-90: vols. 16-23)
29. FOOD TECHNOLOGY, m, US (1984-91: vols. 38-45)
30. FOREIGN AGRICULTURE, m, US (1984-88: vols. 22-26)
31. FOREST ECOLOGY AND MANAGEMENT, q, NL (1984-91: vols. 7-38)
32. FOREST SCIENCE, q, US (1984-90: vols. 30-36)
33. GENETICS, m, GB (1984-91: vols. 106-129)
34. GENOME, bi-m, CH (1989: vols. 31-32)
35. HORTICULTURE, m, US (1984-91: vols. 62-69)

36. JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY, bi-m, US (1984-90: vols. 32-38)
37. JOURNAL OF AGRICULTURAL SCIENCE, q, GB (1984-91: vols. 102-117)
38. JOURNAL OF AMERICAN OIL CHEMISTS SOCIETY, m, US (1984-90: vols. 61-67)
39. JOURNAL OF ANIMAL SCIENCE, m, US (1984-91: vols. 58-69)
40. JOURNAL OF BIOLOGICAL CHEMISTRY, irreg, US (1984-91: vols. 259-266)
41. JOURNAL OF DAIRY RESEARCH, q, GB (1984-91: vols. 51-58)
42. JOURNAL OF DAIRY SCIENCE, m, US (1984-89: vols. 67-72)
43. JOURNAL OF FOOD SCIENCE, bi-m, US (1984-91: vols. 49-56)
44. JOURNAL OF FORESTRY, m, US (1984-91: vols. 82-89)
45. JOURNAL OF INSECT PHYSIOLOGY, m, US (1984-90: vols. 30-36)
46. JOURNAL OF INTERNATIONAL AGRICULTURAL WORLD CROPS (FORMALLY WORLD CROPS), m, GB (1984-85: vols. 36-37)
47. JOURNAL OF NUTRITION, m, US (1984-90: vols. 114-120)
48. JOURNAL OF RANGE MANAGEMENT, bi-m, US (1984-91: vols. 37-44)
49. JOURNAL OF SOIL AND WATER CONSERVATION, bi-m, US (1984-91: vols. 39-46)
50. JOURNAL OF SOIL SCIENCE, q, GB (1984-91: vols. 35-42)
51. JOURNAL OF STORED PRODUCTS RESEARCH, q, US (1984-91: vols. 20-27)
52. JOURNAL OF VETERINARY MEDICAL EDUCATION, 3/yr, US (1983-91: vols. 10-18)
53. NATIONAL GEOGRAPHIC MAGAZINE, m, US (1984-91: vols. 165-180)
54. NATURE, w, GB (1984-91: vols. 307-354)
55. NETHERLANDS JOURNAL OF AGRICULTURAL SCIENCE, q, NL (1984-90: vols. 32-38)
56. NEW SCIENTIST, w, GB (1984-90: vols. 101-128)
57. NUTRITION REVIEWS, m, US (1984-91: vols. 42-49)
58. NUTRITION SOCIETY. PROCEEDINGS, 3/yr, GB (1986-90: vols. 45-49)
59. PLANT AND SOIL, m, NL (1989-90: vols. 119-120)
60. PLANT SCIENCE, m, IE (1984-90: vols. 33-70)
61. RANGELANDS, bi-m, US (1984-91: vols. 6-13)
62. ROYAL STATISTICAL SOCIETY JOURNAL. SERIES B: METHODOLOGICAL, 3/y., GB (1988-91: vols. 50-53)
63. ROYAL STATISTICAL SOCIETY JOURNAL. SERIES C: APPLIED STATISTICS, 3/yr, GB (1989-91: vols. 38-40)
64. SCIENCE DIGEST, m, US (1984-86: vols. 92-94)
65. SCIENTIFIC AMERICAN, m, US (1984-91: vols. 250-265)
66. SEED WORLD, 13/yr, US (1984-91: vols. 122-129)
67. SOIL AND TILLAGE RESEARCH, 8/yr, NL (1984-90: vols. 4-17)
68. SOIL BIOLOGY AND BIOCHEMISTRY, 8/yr, US (1984-91: vols. 16-23)
69. TOXICOLOGY, 16/yr, IE (1983-87: vols. 29-46)

70. TROPICAL GRASSLANDS, q, AU (1984-90: vols. 18-24)
71. VETERINARY PARASITOLOGY, 8/yr, NL (1984-91: vols. 14-41)
72. WEED SCIENCE, bi-m, US (1984-90: vols. 32-38)

B-8: CENTRAL COTTON RESEARCH INSTITUTE. MULTAN

EQUIPMENT

	<u>Item</u>	<u>No.</u>
1.	Microcomputer Everex Tempo 386/SX, Super VGA Color Monitor, 101 Keyboard, 40 MB Hard Disk, DOS 5.0	1
2.	EPSON 1170, 24 Pin Dot Matrix Printer, 10 fonts, 6 pitches (sizes)	1
3.	CD-ROM Drive: Todd Industries TCDR-6000	1
4.	Microfiche reader with plain paper printer, dual lens, image rotation, bimodal printer, microfilm attachment	1
5.	CANON plain paper copier, reduction/enlargement with other basic features	1
6.	Instant Replay Unit (TV/VCR), three systems (NTSC/PAL/SECAM)	1
7.	Punch and bind machine	1
8.	Microfiche cabinet	1
9.	Microfiche tray	1
10.	Voltage stabilizer	4
11.	Manual paper cutter	1

CD-ROM DATABASES

1. AGRIS Database of FAO
2. AGRICOLA Database of USDA
3. Food, Agriculture and Science: Full text prototype database of
selected CGIAR publications
4. Compton's Family Encyclopedia
5. McGraw-Hill Science & Technology Reference Set
(Encyclopedia and Dictionary)

PAKISTANI/PARC DATABASES

1. Pakistan Agriculture Database
2. National Database of Agricultural Journals

SOFTWARE

1. Inmagic 7.2
2. SearchMagic
3. SPIRS retrieval software for SilverPlatter's CD-ROM databases
4. Individual software for different CD-ROM databases

SUPPLIES

- | | |
|--|------------|
| 1. Computer diskette (3.5") | 3 boxes |
| 2. Computer diskette (5.25") | 3 boxes |
| 3. EPSON LQ-1170 ribbon | 3 |
| 4. Toner for CANON copier | 3 kits |
| 5. Toner for microfiche reader/printer | 10 bottles |
| 6. Binding spirals | 5 boxes |
| 7. Binding covers | 6 boxes |
| 8. Microfiche separators | 1 box |

JOURNALS ON MICROFORMS

1. AGRICULTURAL WATER MANAGEMENT, q, NL (1984-90: vols. 8-18)
2. AGRICULTURE ECOSYSTEM ENVIRONMENT, m, NL (1984-91: vols. 11-36)
3. AMERICAN ENTOMOLOGIST, q, US (1990: vol. 36)
4. CROPS PROTECTION, bi-m, GB (1984-90: vols. 3-9)
5. ECOLOGICAL ENTOMOLOGY, q, GB (1984-91: vols. 9-16)
6. ENTOMOLOGICAL SOCIETY OF AMERICA. ANNALS, bi-m, US (1984-91: vols. 77-84)
7. ENTOMOLOGICAL SOCIETY OF AMERICA. BULLETIN, q, US (1984-89: vols. 30-35)
8. ENVIRONMENTAL ENTOMOLOGY, bi-m, US (1984-91: vols. 13-20)
9. EXPERIMENTAL AGRICULTURE, q, GB (1984-91: vols. 20-27)
10. FERTILIZER RESEARCH, bi-m, NL (1989-90: vols. 16-23)
11. FIELD CROPS RESEARCH, m, NL (1984-90: vols. 8-25)
12. GENETICS, m, GB (1984-91: vols. 106-129)
13. HEREDITY, bi-m, GB (1984-90: vols. 52-65)
14. INDIAN JOURNAL OF AGRICULTURAL SCIENCE, m, IN (1984-91: vols. 54-61)
15. INSECT BIOCHEMISTRY, bi-m, US (1984-90: vols. 14-20)
16. JOURNAL OF ECONOMIC ENTOMOLOGY, bi-m, US (1984-91: vols. 77-84)
17. JOURNAL OF EXTENSION, bi-m, US (1984-91: vols. 22-29)
18. JOURNAL OF HEREDITY, bi-m, US (1984-90: vols. 75-81)
19. JOURNAL OF TESTING AND EVALUATION, bi-m, US (1984-91: vols. 12-19)
20. PHYTOPATHOLOGY, m, US (1984-90: vols. 74-80)
21. PLANT AND SOIL, m, NL (1989-90: vols. 119-120)
22. PLANT DISEASE, m, US (1984-91: vols. 68-75)
23. PLANT PHYSIOLOGY, m, US (1984-90: vols. 74-94)
24. SOIL AND TILLAGE RESEARCH, 8/yr, NL (1984-89: vols. 4-14)
25. SUCCESSFUL FARMING, m, US (1984-91: vols. 82-89)
26. THEORETICAL AND APPLIED GENETICS, m, DE (1983-90: vols. 67-80)
27. TROPICAL AGRICULTURE, q, GB (1984-91: vols. 61-68)
28. TROPICAL PEST MANAGEMENT, q, GB (1988-91: vols. 34-37)
29. WEED SCIENCE, bi-m, US (1984-90: vols. 32-38)
30. YOUNG CHILDREN, bi-m, US (1983-89: vols. 39-44)

C-1: ARID ZONE RESEARCH INSTITUTE, QUETTA

EQUIPMENT

<u>Item</u>	<u>No.</u>
1. Microcomputer Everex Tempo 386/SX, Super VGA Color Monitor, 101 Keyboard, 40 MB Hard Disk, DOS 5.0	1
2. EPSON 1170, 24 Pin Dot Matrix Printer, 10 fonts, 6 pitches (sizes)	1
3. CD-ROM Drive: Todd Industries TCDR-6000	1
4. Microfiche reader with plain paper printer, dual lens, image rotation, bimodal printer, microfilm attachment	1
5. Microfiche reader, dual lens, image rotation, microfilm attachment	1
6. CANON plain paper copier, reduction/enlargement with other basic features	1
7. Instant Replay Unit (TV/VCR), three systems (NTSC/PAL/SECAM)	1
8. Punch and bind machine	1
9. Microfiche cabinet	1
10. Microfiche tray	1
11. Voltage stabilizer	5
12. Manual paper cutter	1

CD-ROM DATABASES

1. CAB Abstracts
2. AGRIS Database of FAO
3. AGRICOLA Database of USDA
4. Food, Agriculture and Science: Full text prototype database of selected CGIAR publications

5. Compton's Family Encyclopedia.
6. McGraw-Hill Science & Technology Reference Set (Encyclopedia and Dictionary)

PAKISTANI/PARC DATABASES

1. Pakistan Agriculture Database
2. National Database of Agricultural Journals

SOFTWARE

1. Inmagic 7.2
2. SearchMagic
3. SPIRS retrieval software for SilverPlatter's CD-ROM databases
4. Individual software for different CD-ROM databases

FURNITURE

<u>Item</u>	<u>No.</u>
1. Computer table	1
2. Office tables	2
3. Revolving chairs	4
4. TV/VCR trolley	1

SUPPLIES

1. Computer diskette (3.5")	2 boxes
2. Computer diskette (5.25")	2 boxes
3. EPSON LQ-1170 ribbon	2
4. Tonner for CANON copier	2 kits

5.	Tonner for microfiche reader/printer	10 bottles
6.	Binding spirals	5 boxes
7.	Binding covers	4 boxes
8.	Microfiche separators	1 box

JOURNALS ON MICROFORMS

1. AGRICULTURAL ADMINISTRATION AND EXTENSION, m, GB (1984-88: vols. 15-30)
2. AGRICULTURAL AND FOREST METEOROLOGY, m, US (1983-91: vols. 29-57)
3. AGRICULTURAL ECONOMICS, q, NL (1986-90: vols. 1-4)
4. AGRICULTURAL ECONOMICS RESEARCH, q, US (1984-87: vols. 36-39)
5. AGRICULTURAL SYSTEMS, m, GB (1984-91: vols. 13-37)
6. AGRICULTURE ECOSYSTEM ENVIRONMENT, m, NL (1984-91: vols. 11-36)
7. AGROFORESTRY SYSTEM, q, NL (1989-91: vols. 8-13)
8. AMERICAN JOURNAL OF AGRICULTURAL ECONOMICS, 5/yr, US (1984-90: vols. 66-72)
9. ANIMAL FEED SCIENCE AND TECHNOLOGY, q, NL (1984-91: vols. 10-35)
10. ARID SOIL RESEARCH AND REHABILITATION, q, US (1987-90: vols. 1-4)
11. BIOLOGICAL WASTES, q, GB (1987-90: vols. 19-34)
12. CANADIAN JOURNAL OF AGRICULTURAL ECONOMICS, 3/yr, CA (1984-89: vols. 32-37)
13. ECOLOGICAL MODELLING, q, NL (1983-90: vols. 1-49)
14. EUPHYTICA, q, US (1988-90: vols. 37-46)
15. EXPERIMENTAL AGRICULTURE, q, GB (1984-91: vols. 20-27)
16. FIELD CROPS RESEARCH, m, NL (1984-90: vols. 8-25)
17. FOOD RESEARCH INSTITUTE STUDIES, irreg, US (1984-89: vols. 19-21)
18. INDIAN JOURNAL OF ANIMAL SCIENCES, m, IN (1984-91: vols. 54-61)
19. JOURNAL OF AGRICULTURAL ECONOMICS RESEARCH, q, US (1987-90: vols. 39-42)
20. JOURNAL OF AGRICULTURAL SCIENCE, q, GB (1984-91: vols. 102-117)
21. JOURNAL OF ANIMAL SCIENCE, m, US (1984-91: vols. 58-69)
22. JOURNAL OF EXTENSION, bi-m, US (1984-91: vols. 22-29)
23. JOURNAL OF RANGE MANAGEMENT, bi-m, US (1984-91: vols. 37-44)
24. JOURNAL OF SOIL AND WATER CONSERVATION, bi-m, US (1984-91: vols. 39-46)
25. LAND ECONOMICS, q, US (1984-91: vols. 60-67)
26. LIVESTOCK PRODUCTION SCIENCE, 8/yr, NL (1984-91: vols. 11-29)
27. PLANT AND SOIL, m, NL (1989-90: vols. 119-120)
28. RANGELANDS, bi-m, US (1984-91: vols. 6-13)
29. RURAL SOCIOLOGY, q, US (1984-90: vols. 49-55)
30. SOIL AND TILLAGE RESEARCH, 8/yr, NL (1984-90: vols. 4-17)
31. SOUTHERN JOURNAL OF AGRICULTURAL ECONOMICS, a, US (1984-91: vols. 16-22)

C-2: TROPICAL AGRICULTURAL RESEARCH INSTITUTE, KARACHI

EQUIPMENT

	<u>Item</u>	<u>No.</u>
1.	Microcomputer Everex Tempo 386/SX, Super VGA Color Monitor, 101 Keyboard, 40 MB Hard Disk, DOS 5.0	1
2.	EPSON 1170, 24 Pin Dot Matrix Printer, 10 fonts, 6 pitches (sizes)	1
3.	CD-ROM Drive: Todd Industries TCDR-6000	1
4.	Microfiche reader with plain paper printer, dual lens, image rotation, bimodal printer, microfilm attachment	1
5.	CANON plain paper copier, reduction/enlargement with other basic features	1
6.	Instant Replay Unit (TV/VCR), three systems (NTSC/PAL/SECAM)	1
7.	Punch and bind machine	1
8.	Microfiche cabinet	1
9.	Microfiche tray	1
10.	Voltage stabilizer	4
11.	Manual paper cutter	1

CD-ROM DATABASES

1. CAB Abstracts
2. Aquatic Sciences and Fisheries Abstracts (ASFA)
3. Pest Bank
4. AGRIS Database of FAO
5. AGRICOLA Database of USDA
6. Food, Agriculture and Science: Full text prototype database of
selected CGIAR publications

7. Compton's Family Encyclopedia.
8. McGraw-Hill Science & Technology Reference Set (Encyclopedia and Dictionary)

PAKISTANI PARC DATABASES

1. Pakistan Agriculture Database
2. National Database of Agricultural Journals

SOFTWARE

1. Inmagic 7.2
2. SearchMagic
3. SPIRS retrieval software for SilverPlatter's CD-ROM databases
4. Individual software for different various CD-ROM databases

FURNITURE

<u>Item</u>	<u>No.</u>
1. Computer table	1
2. Office tables	2
3. Revolving chairs	4
4. TV/VCR trolley	1

SUPPLIES

1. Computer diskette (3.5")	2 boxes
2. Computer diskette (5.25")	2 boxes
3. EPSON LQ-1170 ribbon	2
4. Tonner for CANON copier	2 kits

5.	Tonner for microfiche reader/printer	10 bottles
6.	Binding spirals	3 boxes
7.	Binding covers	4 boxes
8.	Microfiche separators	1 box

JOURNALS ON MICROFORMS

1. ANNUAL REVIEW OF ENTOMOLOGY, a, US (1984-86: vols. 29-31)
2. APPLIED AND ENVIRONMENTAL MICROBIOLOGY, m, US (1984-91: vols. 47-57)
3. AVIAN DISEASES, q, US (1984-91: vols. 28-35)
4. BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY, m, US (1984-91: vols. 32-47)
5. CANADIAN JOURNAL OF ZOOLOGY, m, CA (1984-89: vols. 62-67)
6. ECONOMIC BOTANY, q, GB (1984-89: vols. 38-43)
7. ENTOMOLOGICAL SOCIETY OF AMERICA. ANNALS, bi-m, US (1984-91: vols. 76-84)
8. ENVIRONMENTAL AND EXPERIMENTAL BOTANY, q, US (1984-91: vols. 24-31)
9. ENVIRONMENTAL ENTOMOLOGY, bi-m, US (1984-91: vols. 13-20)
10. FERTILIZER RESEARCH, bi-m, NL (1989-89: vols. 16-19)
11. INDIAN JOURNAL OF AGRICULTURAL SCIENCE, m, IN (1984-91: vols. 54-61)
12. JOURNAL OF APPLIED BACTERIOLOGY, bi-m, GB (1984-89: vols. 56-67)
13. JOURNAL OF ECONOMIC ENTOMOLOGY, bi-m, US (1984-91: vols. 77-84)
14. JOURNAL OF NATURAL HISTORY (FORMERLY ANNALS & MAGAZINE OF NATURAL HISTORY), m, GB (1989-91: vols. 23-25)
15. JOURNAL OF SOIL SCIENCE, q, GB (1984-91: vols. 35-42)
16. JOURNAL OF STORED PRODUCTS RESEARCH, q, US (1984-91: vols. 20-27)
17. LIBRARY TRENDS, q, US (1983-90: vols. 32-38)
18. MYCOLOGIA, bi-m, US (1984-89: vols. 76-81)
19. MYCOPATHOLOGIA, bi-m, NL (1989-89: vols. 105-108)
20. PARASITOLOGY, bi-m, GB (1984-89: vols. 88-99)
21. TROPICAL PEST MANAGEMENT, q, GB (1990-91: vols. 36-37)
22. TROPICAL SCIENCE, q, GB (1985-89: vols. 25-29)
23. WILDLIFE REVIEW, q, CA (1984-89: vols. 192-215)
24. WILSON LIBRARY BULLETIN, q, US (1983-90: vols. 58-64)

C-3: AGRICULTURAL RESEARCH INSTITUTE, TARNAB, PESHAWAR

EQUIPMENT

	<u>Item</u>	<u>No.</u>
1.	Microcomputer Everex Tempo 386/SX, Super VGA Color Monitor, 101 Keyboard, 40 MB Hard Disk, DOS 5.0	1
2.	EPSON 1170, 24 Pin Dot Matrix Printer, 10 fonts, 6 pitches (sizes)	1
3.	CD-ROM Drive: Todd Industries TCDR-6000	1
4.	Microfiche reader with plain paper printer, dual lens, image rotation, bimodal printer, microfilm attachment	1
5.	CANON plain paper copier, reduction/enlargement with other basic features	1
6.	Instant Replay Unit (TV/VCR), three systems (NTSC/PAL/SECAM)	1
7.	Punch and bind machine	1
8.	Microfiche cabinet	1
9.	Microfiche tray	1
10.	Voltage stabilizer	4
11.	Manual paper cutter	1
12.	Air-conditioner	1

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	<u>Item</u>	<u>No.</u>
1.	Computer table	1
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SUPPLIES

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7.	Punch and bind machine	1
8.	Microfiche cabinet	1
9.	Microfiche tray	1
10.	Voltage stabilizer	4
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1.	Computer table	1
2.	Office Table	1
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SUPPLIES

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BIOMETRIKA, q, GB.

National Agricultural Research Centre, Islamabad.

BIOSCIENCE, m, US.

Pakistan Forest Institute, Peshawar.

BIOTECHNOLOGY, m, US.

University College of Agriculture, Rawalakot, AJ&K.

BOTANICAL GAZETTE, q, US.

Barani Agricultural College, Rawalpindi.
Faculty of Agriculture, Gomal University, D.I. Khan.
Sindh Agriculture University, Tandojam.
University of Agriculture, Faisalabad.

BRITISH JOURNAL OF NUTRITION, bi-m, GB.

Faculty of Agriculture, Gomal University, D.I. Khan.
National Agricultural Research Centre, Islamabad.
University College of Agriculture, Rawalakot, AJ&K.
University of Agriculture, Faisalabad.

BRITISH JOURNAL OF PHARMACOLOGY, m, GB.

Sindh Agriculture University, Tandojam.
University of Agriculture, Faisalabad.

BRITISH JOURNAL OF SOCIAL WORK, q, GB.

Sindh Agriculture University, Tandojam.

BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY, m, US.

Barani Agricultural College, Rawalpindi.
National Agricultural Research Centre, Islamabad.
Tropical Agricultural Research Institute, Karachi.

CANADIAN ENTOMOLOGIST, m, CA.

Agricultural Research Institute, Sariab.
Ayub Agricultural Research Institute, Faisalabad.
Barani Agricultural College, Rawalpindi.
Faculty of Agriculture, Gomal University, D.I. Khan.
National Agricultural Research Centre, Islamabad.
Nuclear Institute for Agriculture &
Biology, Faisalabad.
University College of Agriculture, Rawalakot, AJ&K.

CANADIAN GEOTECHNICAL JOURNAL, q, CA.

National Documentation Centre, Library &
Information Network (NADLIN), Islamabad.

CANADIAN JOURNAL OF AGRICULTURAL ECONOMICS, 3/yr, CA.

Agricultural Research Institute, Sariab.
Arid Zone Research Institute, Quetta.
NWFP Agricultural University, Peshawar

CANADIAN JOURNAL OF ANIMAL SCIENCE, s a, CA.

Barani Agricultural College, Rawalpindi.
Sindh Agriculture University, Tandojam.
University of Agriculture, Faisalabad.

CANADIAN JOURNAL OF BIOCHEMISTRY AND CELL BIOLOGY, m, CA.

Ayub Agricultural Research Institute, Faisalabad.
Barani Agricultural College, Rawalpindi.
National Agricultural Research Centre, Islamabad.
University College of Agriculture, Rawalakot, AJ&K.
University of Agriculture, Faisalabad.

CANADIAN JOURNAL OF BOTANY, m, CA.

Ayub Agricultural Research Institute, Faisalabad.
Barani Agricultural College, Rawalpindi.
National Agricultural Research Centre, Islamabad
Sindh Agriculture University, Tandojam.
University of Agriculture, Faisalabad.

CANADIAN JOURNAL OF COMPARATIVE MEDICINE, m, CA.

Sindh Agriculture University, Tandojam.

CANADIAN JOURNAL OF FISHERIES & AQUATIC SCIENCES, m, CA.

National Agricultural Research Centre, Islamabad.

CANADIAN JOURNAL OF FOREST RESEARCH, q, CA.

Pakistan Forest Institute, Peshawar.

CANADIAN JOURNAL OF MICROBIOLOGY, m, CA.

Agricultural Research Institute, Sariab.
NWFP Agricultural University, Peshawar.
University of Agriculture, Faisalabad.

CANADIAN JOURNAL OF PHYSIOLOGY AND PHARMACOLOGY, m, CA.

Sindh Agriculture University, Tandojam.

CANADIAN JOURNAL OF PLANT SCIENCE, bi-m, CA.

Agricultural Research Institute, Sariab.
Ayub Agricultural Research Institute, Faisalabad.
Barani Agricultural College, Rawalpindi.
NWFP Agricultural University, Peshawar.
University of Agriculture, Faisalabad.

CANADIAN JOURNAL OF SOIL SCIENCE, q, CA.

Agricultural Research Institute, Tarnab
Agricultural Research Institute, Sariab.
Ayub Agricultural Research Institute, Faisalabad.
Barani Agricultural College, Rawalpindi.
Faculty of Agriculture, Gomal University, D.I. Khan.
NWFP Agricultural University, Peshawar
University College of Agriculture, Rawalakot, AJ&K.
University of Agriculture, Faisalabad.

CANADIAN JOURNAL OF VETERINARY RESEARCH, q, CA.

Sindh Agriculture University, Tandojam.

CANADIAN JOURNAL OF ZOOLOGY, m, CA.

Tropical Agricultural Research Institute, Karachi.
University of Agriculture, Faisalabad.

CANADIAN VETERINARY JOURNAL, m, CA.

Sindh Agriculture University, Tandojam.
University of Agriculture, Faisalabad.

CELL AND TISSUE RESEARCH, m, US.

National Agricultural Research Centre, Islamabad.

CELLULAR AND MOLECULAR BIOLOGY, bi-m, GB.

Sindh Agriculture University, Tandojam.

CEREAL CHEMISTRY, bi-m, US.

Agricultural Research Institute, Tarnab
Ayub Agricultural Research Institute, Faisalabad.
Barani Agricultural College, Rawalpindi.
Faculty of Agriculture, Gomal University, D.I. Khan.
National Agricultural Research Centre Islamabad.
University College of Agriculture, Rawalakot, AJ&K.

CEREAL FOODS WORLD, m, US.

Agricultural Research Institute, Tarnab
NWFP Agricultural University, Peshawar.
National Agricultural Research Centre, Islamabad.

CHEMISTRY AND INDUSTRY, s-a, GB.

Ayub Agricultural Research Institute, Faisalabad.

CHEMISTRY IN BRITAIN, m, GB.

University of Agriculture, Faisalabad.

CITRUS INDUSTRY, m, *.

Ayub Agricultural Research Institute, Faisalabad.
Sindh Agriculture University, Tandojam.
University of Agriculture, Faisalabad.

COLLEGE AND RESEARCH LIBRARIES, bi-m, US.

National Agricultural Research Centre, Islamabad.

COLLEGE MATHEMATICS JOURNAL, irreg, US.

College of Veterinary Sciences, Lahore.
NWFP Agricultural University, Peshawar.
Sindh Agriculture University, Tandojam.

COMMUNICATION EDUCATION, q, US.

Barani Agricultural College, Rawalpindi.

COMPARATIVE IMMUNOLOGY, q, GB.

Sindh Agriculture University, Tandojam.

**COMPUTATIONAL STATISTICS AND DATA ANALYSIS ,
irreg, *.**

NWFP Agricultural University, Peshawar.
Sindh Agriculture University, Tandojam.

COMPUTERS IN LIBRARIES, irreg, *.

National Agricultural Research Centre, Islamabad.

CONSERVATION BIOLOGY, irreg, US.

Pakistan Forest Institute, Peshawar.

CROPS PROTECTION, bi-m, GB.

Central Cotton Research Institute, Multan.
Sindh Agriculture University, Tandojam.

**CURRENT ADVANCES IN GENETICS AND MOLECULAR
BIOLOGY, irreg, GB.**

Faculty of Agriculture, Gomal University, D.I. Khan.

CURRENT ADVANCES IN PLANT SCIENCE, m, GB.

Ayub Agricultural Research Institute, Faisalabad.

CYTOTECHNOLOGY, irreg, *.

Sindh Agriculture University, Tandojam.

DAIRY FOODS, irreg, US.

National Agricultural Research Centre, Islamabad.
University College of Agriculture, Rawalakot, AJ&K.

DAIRY RECORD, 13/yr, US.

National Agricultural Research Centre, Islamabad.

DATA PROCESSING, m, GB.

Ayub Agricultural Research Institute, Faisalabad.

DEVELOPMENT, q, IT.

University of Agriculture, Faisalabad.

DISSERTATION ABSTRACT - A, m, US.

University of Agriculture, Faisalabad.

**DISSERTATION ABSTRACT INTERNATIONAL - B. THE
SCIENCES AND ENGINEERING, m, US.**

University of Agriculture, Faisalabad.

EARTH SCIENCE REVIEWS, q, NE.

National Documentation Centre, Library &
Information Network (NADLIN), Islamabad.

ECOLOGICAL ENTOMOLOGY, q, GB.

Barani Agricultural College, Rawalpindi.
Central Cotton Research Institute, Multan.
Sindh Agriculture University, Tandojam.
University of Agriculture, Faisalabad.

- ECOLOGICAL MODELLING, q, NL.**
Arid Zone Research Institute, Quetta.
- ECOLOGICAL MODELLING, q, NL.**
National Agricultural Research Centre, Islamabad.
Tropical Agricultural Research Institute, Karachi.
University College of Agriculture, Rawalakot, AJ&K.
- ECOLOGY, bi-m, GB.**
Barani Agricultural College, Rawalpindi.
University of Agriculture, Faisalabad.
- ENTOMOLOGICAL SOCIETY OF AMERICA. BULLETIN, q, US.**
Ayub Agricultural Research Institute, Faisalabad.
Central Cotton Research Institute, Multan.
Faculty of Agriculture, Gomal University, D.I. Khan.
- ECONOMETRICA, bi-m, US.**
NWFP Agricultural University, Peshawar.
- ENVIRONMENTAL AND EXPERIMENTAL BOTANY, q, US.**
Ayub Agricultural Research Institute, Faisalabad.
Sindh Agriculture University, Tandojam.
Tropical Agricultural Research Institute, Karachi.
- ECONOMIC BOTANY, q, GB.**
Ayub Agricultural Research Institute, Faisalabad.
National Agricultural Research Centre, Islamabad.
Pakistan Forest Institute, Peshawar.
Tropical Agricultural Research Institute, Karachi.
University College of Agriculture, Rawalakot, AJ&K.
- ENVIRONMENTAL ENTOMOLOGY, bi-m, US.**
Agricultural Research Institute, Sariab.
Barani Agricultural College, Rawalpindi.
Central Cotton Research Institute, Multan.
Faculty of Agriculture, Gomal University, D.I. Khan.
National Agricultural Research Centre, Islamabad.
Sindh Agriculture University, Tandojam.
Tropical Agricultural Research Institute, Karachi.
University College of Agriculture, Rawalakot, AJ&K.
- ECONOMIC DEVELOPMENT AND CULTURAL CHANGE, q, US.**
College of Veterinary Sciences, Lahore.
NWFP Agricultural University, Peshawar.
National Agricultural Research Centre, Islamabad.
Sindh Agriculture University, Tandojam.
University of Agriculture, Faisalabad.
- ENVIRONMENTAL MANAGEMENT, bi-m, US.**
Pakistan Forest Institute, Peshawar.
- ECONOMIC INDUSTRY, q, US.**
Sindh Agriculture University, Tandojam.
- ENVIRONMENTAL POLLUTION, q, GB.**
University of Agriculture, Faisalabad.
- ECONOMIC JOURNAL, m, GB.**
University of Agriculture, Faisalabad.
- EUPHYTICA, q, US.**
Agricultural Research Institute, Tarnab.
Arid Zone Research Institute, Quetta.
National Agricultural Research Centre, Islamabad.
University of Agriculture, Faisalabad.
- ECONOMIC RECORD, q, AT.**
University of Agriculture, Faisalabad.
- EUROPEAN JOURNAL OF BIOCHEMISTRY, bi-m, DE.**
Barani Agricultural College, Rawalpindi.
- ECONOMIST, w, GB.**
Agricultural Research Institute, Sariab.
- EUROPEAN JOURNAL OF PHARMACOLOGY, s-m, NL.**
Sindh Agriculture University, Tandojam.
- ENTOMOLOGICAL SOCIETY OF AMERICA. ANNALS, bi-m, US.**
Agricultural Research Institute, Sariab.
Barani Agricultural College, Rawalpindi.
Central Cotton Research Institute, Multan.
Faculty of Agriculture, Gomal University, D.I. Khan.
Nuclear Institute for Agriculture & Biology, Faisalabad.
- EVOLUTION, q, US.**
University of Agriculture, Faisalabad.

EXPERIMENTAL AGRICULTURE, q, GB.

Arid Zone Research Institute, Quetta.
Ayub Agricultural Research Institute, Faisalabad.
Barani Agricultural College, Rawalpindi.
Central Cotton Research Institute, Multan.
Nuclear Institute for Agriculture &
Biology, Faisalabad.
NWFP Agricultural University, Peshawar.
University of Agriculture, Faisalabad.

EXPERT SYSTEMS, ?, *

NWFP Agricultural University, Peshawar.

EXTENSION REVIEW, q, US.

Agricultural Research Institute, Sariab.
College of Veterinary Sciences, Lahore.
National Agricultural Research Centre, Islamabad.
NWFP Agricultural University, Peshawar.
Sindh Agriculture University, Tandojam.
University of Agriculture, Faisalabad.

FARM CHEMICALS, m, US.

Barani Agricultural College, Rawalpindi.
Faculty of Agriculture, Gomal University, D.I. Khan.
University College of Agriculture, Rawalakot, AJ&K.

FASEB JOURNAL, m, US.

Sindh Agriculture University, Tandojam.

FEDERATION PROCEEDINGS, m, US.

Sindh Agriculture University, Tandojam.

FEED MANAGEMENT, m, US.

National Agricultural Research Centre, Islamabad.
University College of Agriculture, Rawalakot, AJ&K.

FEED STUFFS, w, US.

University of Agriculture, Faisalabad.

FEMS MICROBIOLOGY LETTERS, m, NL.

Nuclear Institute for Agriculture &
Biology, Faisalabad.

FERTILIZER RESEARCH, bi-m, NL.

Agricultural Research Institute, Sariab.
Ayub Agricultural Research Institute, Faisalabad.

Central Cotton Research Institute, Multan.
National Agricultural Research Centre, Islamabad.
Tropical Agricultural Research Institute, Karachi.
University College of Agriculture, Rawalakot, AJ&K.

FIELD CROPS RESEARCH, m, NL.

Agricultural Research Institute, Sariab.
Arid Zone Research Institute, Quetta.
Central Cotton Research Institute, Multan.
Sindh Agriculture University, Tandojam.
University of Agriculture, Faisalabad.

FISHERIES RESEARCH, q, NL.

National Agricultural Research Centre, Islamabad.

FLORIST'S REVIEW, w, US.

Sindh Agriculture University, Tandojam.

FOOD AND NUTRITION, bi-m, US.

National Agricultural Research Centre, Islamabad.

FOOD AND NUTRITION, q, UN.

Agricultural Research Institute, Tarnab.

FOOD CHEMISTRY, q, GB.

Faculty of Agriculture, Gomal University, D.I. Khan.

FOOD MANUFACTURE, m, GB.

Ayub Agricultural Research Institute, Faisalabad.

FOOD POLICY, q, GB.

National Agricultural Research Centre, Islamabad.

FOOD PROCESSING, m, US.

University of Agriculture, Faisalabad.

FOOD RESEARCH INSTITUTE STUDIES, Irrsg, US.

Arid Zone Research Institute, Quetta.

FOOD TECHNOLOGY, m, US.

Agricultural Research Institute, Tarnab.
Ayub Agricultural Research Institute, Faisalabad.
Barani Agricultural College, Rawalpindi.

Faculty of Agriculture, Gomal University, D.I. Khan.
National Agricultural Research Centre, Islamabad.
University College of Agriculture, Rawalakot, AJ&K.
University of Agriculture, Faisalabad.

GENE., Irreg, NL

University of Agriculture, Faisalabad.

FOREIGN AGRICULTURE, m, US.

University College of Agriculture, Rawalakot, AJ&K.

GENETICAL RESEARCH, bi-m, GB.

Ayub Agricultural Research Institute, Faisalabad.

FOREIGN LANGUAGE ANNALS, bi-m, US.

NWFP Agricultural University, Peshawar.

GENETICS, m, GB.

Ayub Agricultural Research Institute, Faisalabad.
Central Cotton Research Institute, Multan.
College of Veterinary Sciences, Lahore.
National Agricultural Research Centre, Islamabad.
Nuclear Institute for Agriculture &
Biology, Faisalabad.
University College of Agriculture, Rawalakot, AJ&K.
University of Agriculture, Faisalabad.

FOREST AND CONSERVATION HISTORY, Irreg, *

Pakistan Forest Institute, Peshawar.

GENETICS, SELECTION, EVOLUTION, q, FR.

Faculty of Agriculture, Gomal University, D.I. Khan.

FOREST ECOLOGY AND MANAGEMENT, q, NL.

Barani Agricultural College, Rawalpindi.
National Agricultural Research Centre, Islamabad.
Pakistan Forest Institute, Peshawar.
University College of Agriculture, Rawalakot, AJ&K.
University of Agriculture, Faisalabad.

GENOME, bi-m, CH.

University College of Agriculture, Rawalakot, AJ&K.

FOREST PRODUCTS JOURNAL, m, US.

Pakistan Forest Institute, Peshawar

GEOGRAPHICAL JOURNAL, 3/yr, GB.

National Documentation Centre, Library &
Information Network (NADLIN), Islamabad.

FOREST SCIENCE, q, US.

Barani Agricultural College, Rawalpindi.
National Agricultural Research Centre, Islamabad.
Pakistan Forest Institute, Peshawar.
University College of Agriculture, Rawalakot, AJ&K.

GEOLOGICAL SOCIETY OF AMERICA. BULLETIN, m, US.

National Documentation Centre, Library &
Information Network (NADLIN), Islamabad.

FORESTRY, s-a, US.

Pakistan Forest Institute, Peshawar.

GEOMORPHOLOGY, q, NL.

National Documentation Centre, Library &
Information Network (NADLIN), Islamabad.

FRESH WATER BIOLOGY, bi-m, GB.

National Agricultural Research Centre, Islamabad.

GEOLOGICAL SOCIETY OF AMERICA. BULLETIN, m, US.

National Documentation Centre, Library &
Information Network (NADLIN), Islamabad.

FRUIT VARIETIES JOURNAL, q, US.

Faculty of Agriculture, Gomal University, D.I. Khan.

GERODERMA, 8/yr, *

NWFP Agricultural University, Peshawar.

GARDEN, bi-m, US.

Faculty of Agriculture, Gomal University, D.I. Khan.
NWFP Agricultural University, Peshawar.

GLEANINGS IN BEE CULTURE, m, US.

Barani Agricultural College, Rawalpindi.
National Agricultural Research Centre, Islamabad.

- GRASS AND FORAGE SCIENCE, q, GB.**
National Agricultural Research Centre, Islamabad.
College of Veterinary Sciences, Lahore.
Tropical Agricultural Research Institute, Karachi.
- GROUND WATER AGE, m, US.**
National Documentation Centre, Library & Information Network (NADLIN), Islamabad.
INDIAN JOURNAL OF ANIMAL SCIENCES, m, IN.
Arid Zone Research Institute, Quetta.
University of Agriculture, Faisalabad.
- GROUND WATER, bi-m, US.**
Sindh Agriculture University, Tandojam.
INDUSTRIAL ENGINEERING, m, *.
University of Agriculture, Faisalabad.
- HEREDITY, bi-m, GB.**
Central Cotton Research Institute, Multan.
College of Veterinary Sciences, Lahore.
Faculty of Agriculture, Gomal University, D.I. Khan.
Nuclear Institute for Agriculture & Biology, Faisalabad.
Sindh Agriculture University, Tandojam.
INFORMATION AND SOFTWARE TECHNOLOGY, Irreg, *.
Ayub Agricultural Research Institute, Faisalabad.
- HOARD'S DAIRYMAN, s-m, US.**
University of Agriculture, Faisalabad.
INFORMATION PROCESSING AND MANAGEMENT, bi-m, US.
National Agricultural Research Centre, Islamabad.
- HORTICULTURE, m, IJS.**
Faculty of Agriculture, Gomal University, D.I. Khan.
National Agricultural Research Centre, Islamabad.
NWFP Agricultural University, Peshawar.
University College of Agriculture, Rawalakot, AJ&K.
INFORMATION RETRIEVAL AND LIBRARY AUTOMATION, m, US.
National Agricultural Research Centre, Islamabad.
- HOUSE AND GARDEN, m, US.**
NWFP Agricultural University, Peshawar.
INFORMATION SCIENCES, ?, *.
National Documentation Centre, Library & Information Network (NADLIN), Islamabad.
- HOUSE BEAUTIFUL, m, US.**
NWFP Agricultural University, Peshawar.
INFORMATION SERVICES AND USE, bi-m, NL.
National Agricultural Research Centre, Islamabad.
- IMMUNOGENETICS, bi-m, US.**
College of Veterinary Sciences, Lahore.
INFORMATION TECHNOLOGY AND LIBRARIES, Irreg, US.
National Agricultural Research Centre, Islamabad.
- IMMUNOLOGY AND CELL BIOLOGY, bi-m, AU.**
University of Agriculture, Faisalabad.
INSECT BIOCHEMISTRY, bi-m, US.
Central Cotton Research Institute, Multan.
- INDIAN JOURNAL OF AGRICULTURAL SCIENCE, m, IN.**
Agricultural Research Institute, Sariab.
Agricultural Research Institute, Tarnab.
Barani Agricultural College, Rawalpindi.
Central Cotton Research Institute, Multan.
INTERACTING WITH COMPUTERS, ?, *.
National Documentation Centre, Library & Information Network (NADLIN), Islamabad.
INTERNATIONAL ASSOCIATION OF AGRICULTURAL LIBRARIANS AND DOCUMENTALISTS, Irreg, US.
National Agricultural Research Centre, Islamabad.

INTERNATIONAL JOURNAL FOR PARASITOLOGY, q, GB.

College of Veterinary Sciences, Lahore.

INTERNATIONAL JOURNAL OF APPLIED ENGINEERING EDUCATION, Irreg, *

Sindh Agriculture University, Tandojam.

INTERNATIONAL JOURNAL OF BIOCHEMISTRY, m, US.

University of Agriculture, Faisalabad.

INTERNATIONAL JOURNAL OF EPIDEMIOLOGY, q, GB.

Sindh Agriculture University, Tandojam.

INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY, bi-m, GB.

Faculty of Agriculture, Gomal University, D.I. Khan.
University of Agriculture, Faisalabad.

INTERNATIONAL JOURNAL OF FORECASTING, Irreg, *.

NWFP Agricultural University, Peshawar.
Sindh Agriculture University, Tandojam.

INTERNATIONAL JOURNAL OF GEOGRAPHICAL INFORMATION SYSTEMS, ?, *.

National Documentation Centre, Library &
Information Network (NADLIN), Islamabad.

INTERNATIONAL JOURNAL OF IMMUNOPHARMACOLOGY, q, GB.

Sindh Agriculture University, Tandojam.

INTERNATIONAL JOURNAL OF INSECT MORPHOLOGY AND EMBRYOLOGY, bi-m, US.

Sindh Agriculture University, Tandojam.

INTERNATIONAL JOURNAL OF MICROGRAPHIC AND OPTICAL TECHNOLOGY, Irreg, GB.

National Agricultural Research Centre, Islamabad.

INTERNATIONAL JOURNAL OF MICROGRAPHIC AND VIDEO TECHNOLOGY, Irreg, GB.

National Agricultural Research Centre, Islamabad.

INTERNATIONAL JOURNAL OF REMOTE SENSING, m, GB.

National Documentation Centre, Library &
Information Network (NADLIN), Islamabad.
National Agricultural Research Centre, Islamabad.

INTERNATIONAL SUGAR JOURNAL, m, GB.

Agricultural Research Institute, Tarnab.
Ayub Agricultural Research Institute, Faisalabad.
NWFP Agricultural University, Peshawar.
University of Agriculture, Faisalabad.

IRRIGATION AGE, m, US.

National Documentation Centre, Library &
Information Network (NADLIN), Islamabad.

IRRIGATION AND DRAINAGE SYSTEMS, 3/yr, NL.

National Documentation Centre, Library &
Information Network (NADLIN), Islamabad.

IRRIGATION JOURNAL, bi-m, US.

National Documentation Centre, Library &
Information Network (NADLIN), Islamabad.
Sindh Agriculture University, Tandojam.
University of Agriculture, Faisalabad.

IRRIGATION SCIENCE, q, DE.

Faculty of Agriculture, Gomal University, D.I. Khan.
National Documentation Centre, Library &
Information Network (NADLIN), Islamabad.
Nuclear Institute for Agriculture &
Biology, Faisalabad.

JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY, bi-m, US.

Agricultural Research Institute, Tarnab.
Ayub Agricultural Research Institute, Faisalabad.
Barani Agricultural College, Rawalpindi.
Faculty of Agriculture, Gomal University, D.I. Khan.
National Agricultural Research Centre, Islamabad.
University College of Agriculture, Rawalakot, AJ&K.
University of Agriculture, Faisalabad.

JOURNAL OF AGRICULTURAL ECONOMICS, q, GB.

University of Agriculture, Faisalabad.

JOURNAL OF AGRICULTURAL ECONOMICS RESEARCH, q, US.

Arid Zone Research Institute, Quetta.
Agricultural Research Institute, Sariat.

Barani Agricultural College, Rawalpindi.
College of Veterinary Sciences, Lahore.
National Agricultural Research Centre, Islamabad.
NWFP Agricultural University, Peshawar.
Sindh Agriculture University, Tandojam.
University of Agriculture, Faisalabad.

JOURNAL OF AGRICULTURAL SCIENCE, q, GB.

Agricultural Research Institute, Sariab.
Arid Zone Research Institute, Quetta.
Ayub Agricultural Research Institute, Faisalabad.
Barani Agricultural College, Rawalpindi.
Faculty of Agriculture, Gomal University, D.I. Khan.
Nuclear Institute for Agriculture &
Biology, Faisalabad.
NWFP Agricultural University, Peshawar.
Sindh Agriculture University, Tandojam.
University College of Agriculture, Rawalakot, AJ&K.
University of Agriculture, Faisalabad.

JOURNAL OF AMERICAN CHEMISTS SOCIETY, m, US.

Barani Agricultural College, Rawalpindi.
National Agricultural Research Centre, Islamabad.
University College of Agriculture, Rawalakot, AJ&K.

JOURNAL OF ANIMAL ECOLOGY, 3/yr, GB.

Ayub Agricultural Research Institute, Faisalabad.
Barani Agricultural College, Rawalpindi.

JOURNAL OF ANIMAL SCIENCE, m, US.

Arid Zone Research Institute, Quetta.
College of Veterinary Sciences, Lahore.
National Agricultural Research Centre, Islamabad.
University College of Agriculture, Rawalakot, AJ&K.
University of Agriculture, Faisalabad.

JOURNAL OF APPLIED BACTERIOLOGY, bi-m, GB.

College of Veterinary Sciences, Lahore.
NWFP Agricultural University, Peshawar.
Tropical Agricultural Research Institute, Karachi.

JOURNAL OF APPLIED ECOLOGY, 3/yr, GB.

Ayub Agricultural Research Institute, Faisalabad.
University of Agriculture, Faisalabad.

JOURNAL OF BACTERIOLOGY, m, US.

Agricultural Research Institute, Sariab.
NWFP Agricultural University, Peshawar.
University of Agriculture, Faisalabad.

JOURNAL OF BIOLOGICAL CHEMISTRY, Irreg, US.

Barani Agricultural College, Rawalpindi.
National Agricultural Research Centre, Islamabad.
NWFP Agricultural University, Peshawar.
Sindh Agriculture University, Tandojam.
University College of Agriculture, Rawalakot, AJ&K.
University of Agriculture, Faisalabad.

JOURNAL OF CELL SCIENCE, bi-m, GB.

University of Agriculture, Faisalabad.

JOURNAL OF CONSUMER AFFAIRS, s-a, US.

Agricultural Research Institute, Sariab.

JOURNAL OF DAIRY RESEARCH, q, GB.

Barani Agricultural College, Rawalpindi.
National Agricultural Research Centre, Islamabad.
University College of Agriculture, Rawalakot, AJ&K.
University of Agriculture, Faisalabad.

JOURNAL OF DAIRY SCIENCE, m, US.

Ayub Agricultural Research Institute, Faisalabad.
College of Veterinary Sciences, Lahore.
National Agricultural Research Centre, Islamabad.
University College of Agriculture, Rawalakot, AJ&K.
University of Agriculture, Faisalabad.

JOURNAL OF ECOLOGY, 3/yr, GB.

Ayub Agricultural Research Institute, Faisalabad.
Nuclear Institute for Agriculture &
Biology, Faisalabad.

JOURNAL OF ECONOMETRICS, m, NL.

Sindh Agriculture University, Tandojam.

JOURNAL OF ECONOMIC BEHAVIOR AND ORGANIZATION, q, NL.

Sindh Agriculture University, Tandojam.

JOURNAL OF ECONOMIC ENTOMOLOGY, bi-m, US.

Agricultural Research Institute, Sariab.
Agricultural Research Institute, Tarnab.
Ayub Agricultural Research Institute, Faisalabad.
Barani Agricultural College, Rawalpindi.
Central Cotton Research Institute, Multan.
Faculty of Agriculture, Gomal University, D.I. Khan.
National Agricultural Research Centre, Islamabad.

Tropical Agricultural Research Institute, Karachi.
University of Agriculture, Faisalabad.

JOURNAL OF FISH DISEASES, bi-m, GB.

National Agricultural Research Centre, Islamabad.

JOURNAL OF ECONOMIC ISSUES, q, US.

College of Veterinary Sciences, Lahore.
National Agricultural Research Centre, Islamabad.
NWFP Agricultural University, Peshawar.
Sindh Agriculture University, Tandojam.
University of Agriculture, Faisalabad.

JOURNAL OF FOOD PROTECTION, m, US.

Barani Agricultural College, Rawalpindi.
National Agricultural Research Centre, Islamabad.

JOURNAL OF ECONOMIC LITERATURE, q, US.

College of Veterinary Sciences, Lahore.
NWFP Agricultural University, Peshawar.
National Agricultural Research Centre, Islamabad.
Sindh Agriculture University, Tandojam.
University of Agriculture, Faisalabad.

JOURNAL OF FOOD SCIENCE, bi-m, US.

Agricultural Research Institute, Tarnab.
Ayub Agricultural Research Institute, Faisalabad.
Barani Agricultural College, Rawalpindi.
Faculty of Agriculture, Gomal University, D.I. Khan.
National Agricultural Research Centre, Islamabad.
University College of Agriculture, Rawalakot, AJ&K.
University of Agriculture, Faisalabad.

JOURNAL OF EDUCATIONAL RESEARCH, bi-m, GB.

Sindh Agriculture University, Tandojam.

JOURNAL OF FOOD TECHNOLOGY, bi-m, GB.

Faculty of Agriculture, Gomal University, D.I. Khan.

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