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**FORESTRY PLANNING & DEVELOPMENT PROJECT  
GOVERNMENT OF PAKISTAN - USAID**

**CONTRACT NO. 391-0481-00-C-5021-00**

**QUARTERLY PROGRESS REPORT**

**1 January - 31 March, 1992**

**ISLAMABAD, PAKISTAN  
April 30, 1992**



# FORESTRY PLANNING & DEVELOPMENT PROJECT

## Government of Pakistan-USAID

30 April 1992

TO: Kh. Hameedullah  
Project Officer

FROM: Charles R. Hatch *Charles R. Hatch*  
Chief of Party

SUB: Quarterly Report for Period 1 January-31 March, 1992

Attached is the Quarterly Report for the third quarter of Pakistan FY 91/92 covering the period 1 January - 31 March, 1992. Graphs and tables in this report also summarize life of project achievements.

### Distribution:

Contract Office	3
Project Office	4
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O/IGF	20
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TAT	2
WI/HQ	2

 **Winrock International**

**Technical Assistance Team**

58, Margalla Road, F-7/2, Islamabad, Pakistan. Tel : 813262 -- 813272 Tlx : 54252 WIFPD PK Fax : 824519

**FORESTRY PLANNING & DEVELOPMENT PROJECT  
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## QUARTERLY PROGRESS REPORT

Forestry Planning & Development Project - Phase II  
Government of Pakistan-USAID (FP&D)  
Contract No.391-0481-C-00-5021-00

Prepared by

Charles R. Hatch & Nasrullah Khan Aziz  
Chief of Party                      DIGF

For the 3rd Quarter of Fiscal Year 1991/92

1 January - 31 March 1992

### SUMMARY

The following charts give a visual summary of project activities for the 3rd quarter and cumulative for Pakistan fiscal year 1991/92, and cumulative for life of project. Included in the graphical summary is:

- Figure 1. The number of farm households participating in farm forestry.
- Figure 2. The number of trees that have been planted on farms.
- Figure 3. The number of private farm nurseries.
- Figure 4. The number of seedlings raised in farm nurseries.
- Figure 5. The number of acres treated under soil conservation and land development activities.
- Figure 6. The number of farmers trained in farm forestry activities.
- Figure 7. The number of forest department staff trained.
- Figure 8. Project purpose level economic indicators.

The following tables give a tabular summary of project activities for the 3rd quarter and cumulative for Pakistan fiscal year 1991-1992, and cumulative for life of project. Included in the tabular summary is:

Table 1. Third quarter's accomplishments by geographic location.

Table 2. The 1991/92 fiscal year project targets and accomplishments by geographic location. .

Table 3. The 1991/92 fiscal year project targets and accomplishments by quarter.

Table 4. The life of project targets and accomplishments by fiscal year.

Attachment A gives the cumulative life of project Technical Assistance Team expenditures by line item. Attachment B gives the cumulative life of project USAID and GOP expenditures. Attachment C lists the publications and reports produced by the project during the 3rd quarter of fiscal year 1991/92.

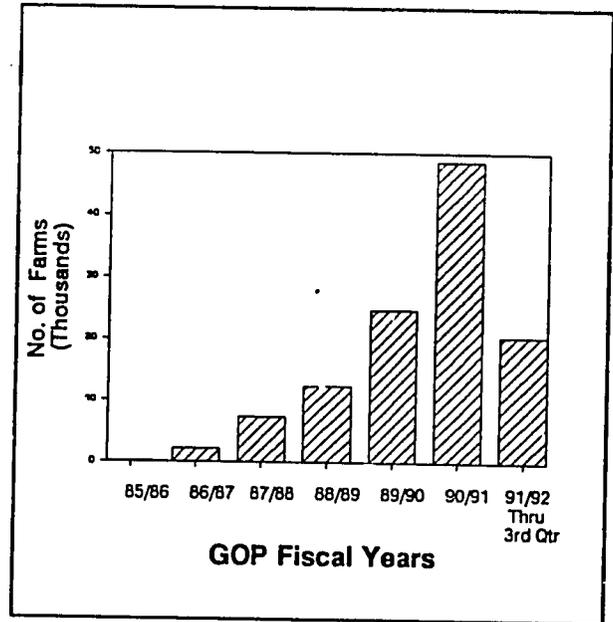
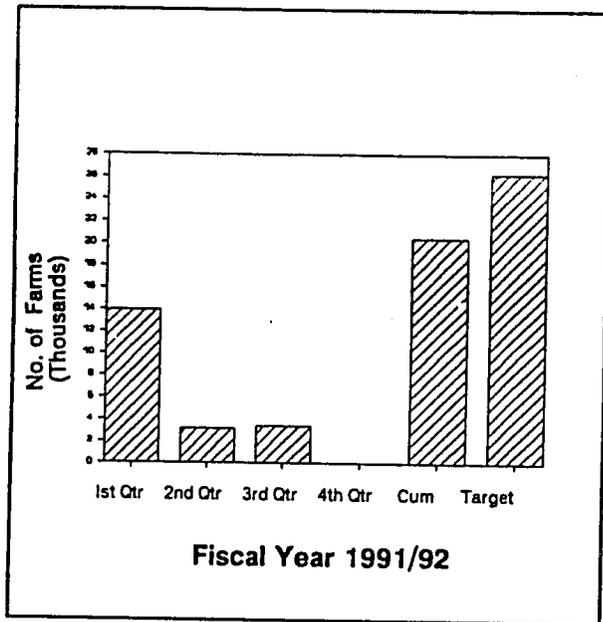


Figure 1. No. of Farm Households Participating in Farm Forestry

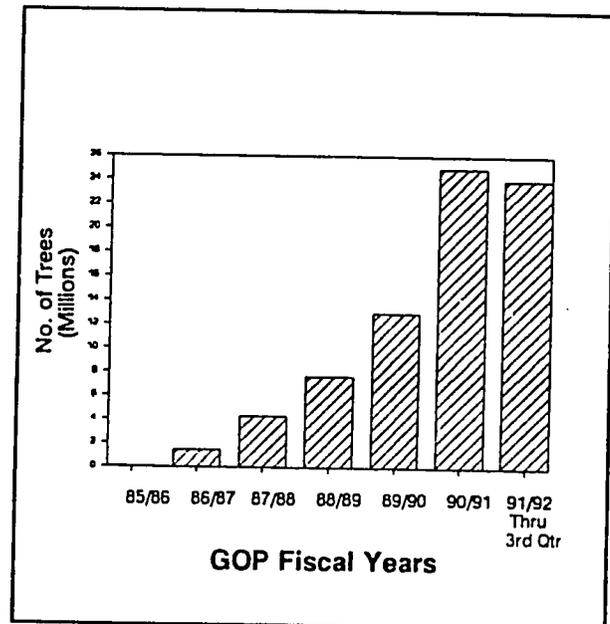
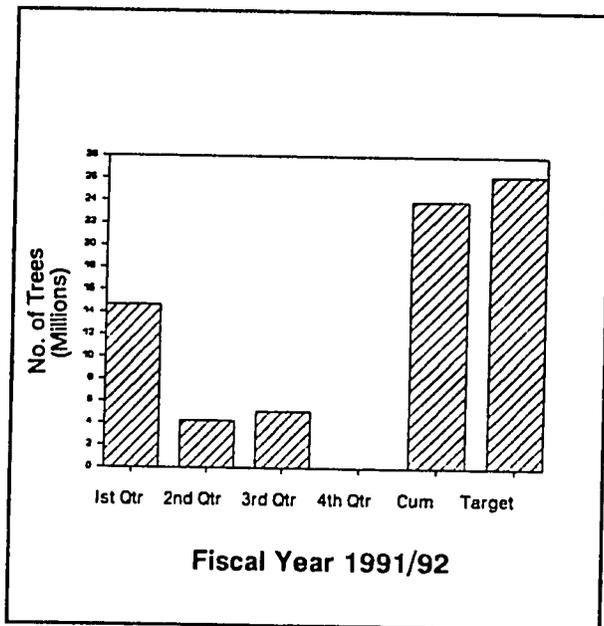


Figure 2. No. of Trees Planted on Farms

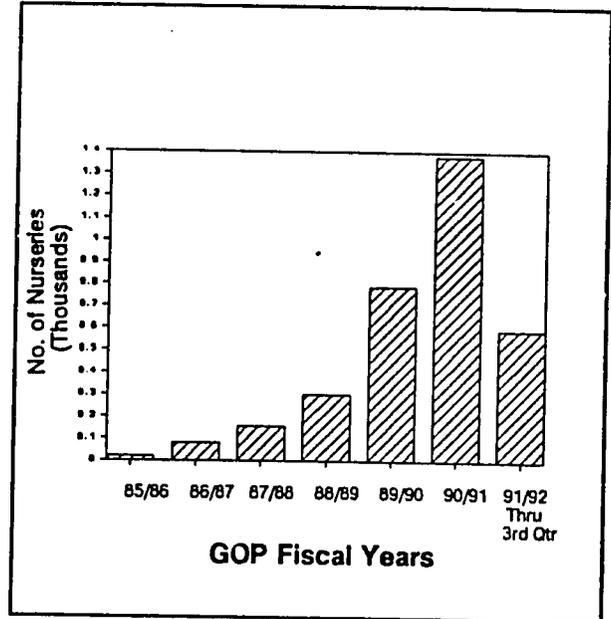
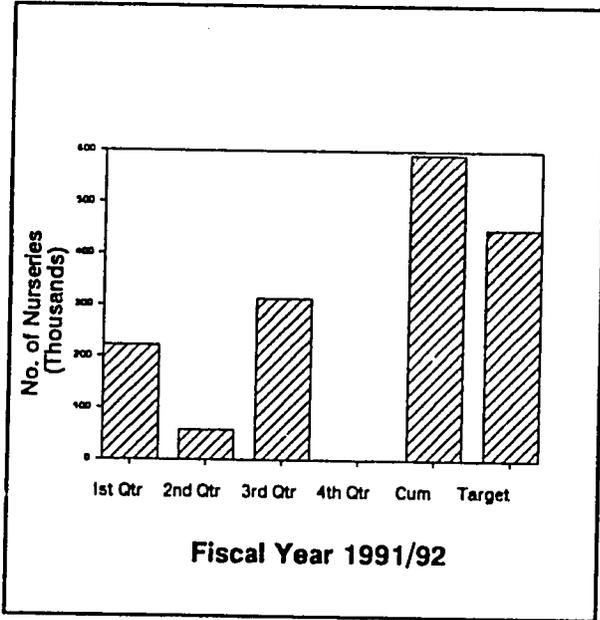


Figure 3. No. of Farm Nurseries

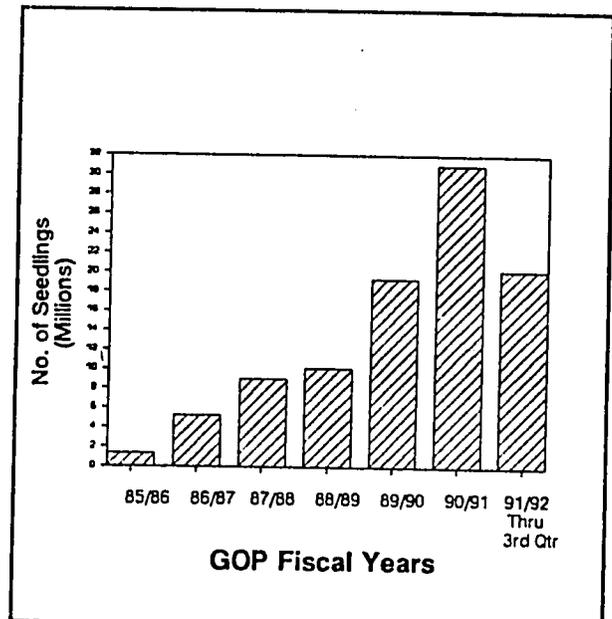
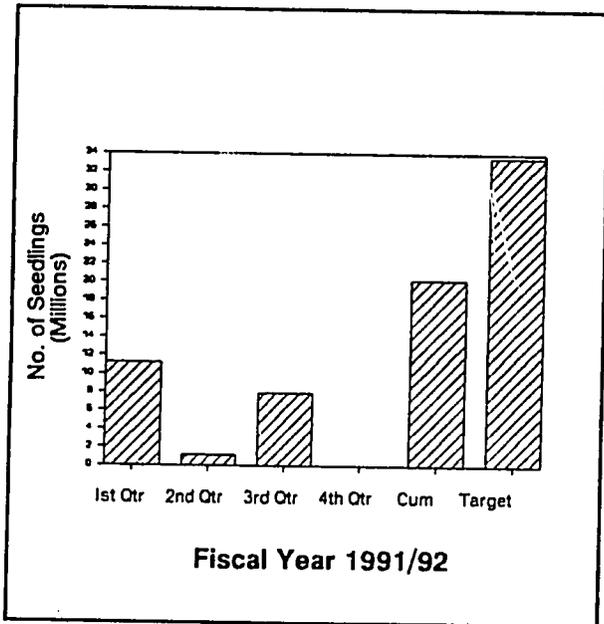


Figure 4. No. of Seedlings Raised in Farm Nurseries

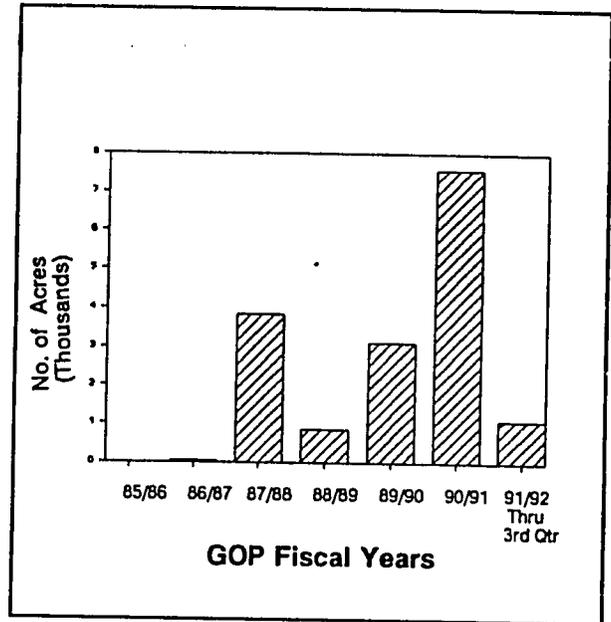
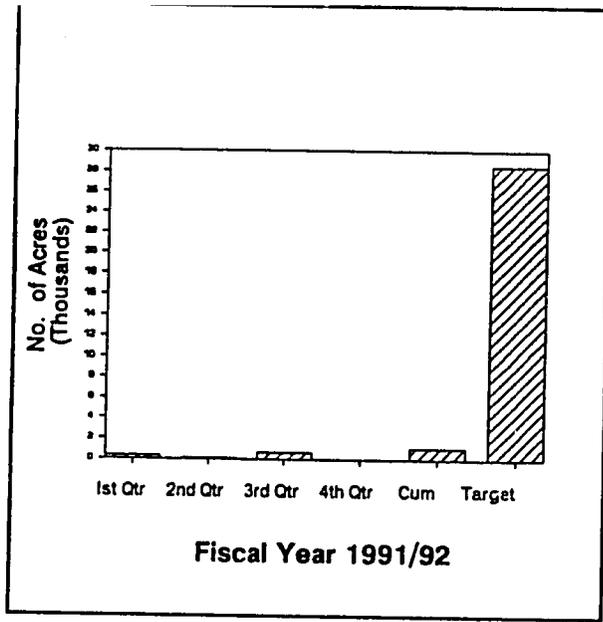


Figure 5. No. of Acres Treated under Soil Conservation and Land Development Activities

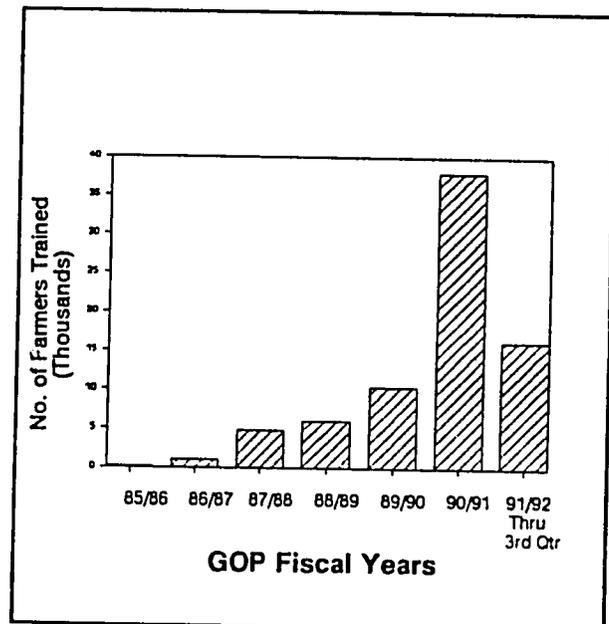
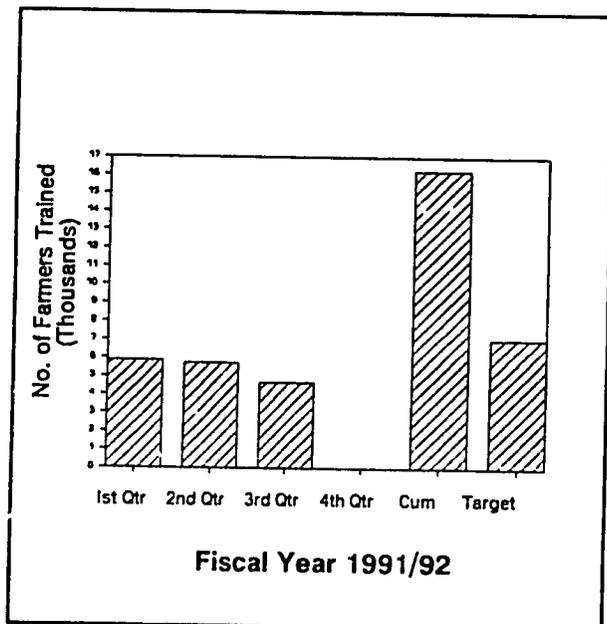


Figure 6. No. of Farmers Trained in Farm Forestry Activities

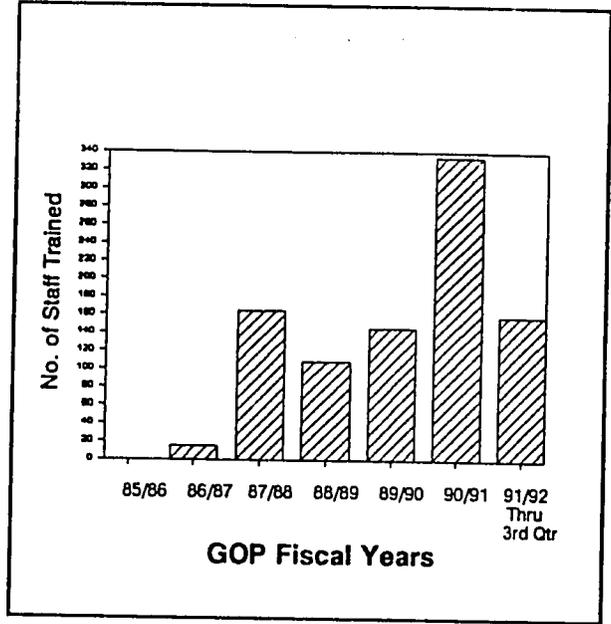
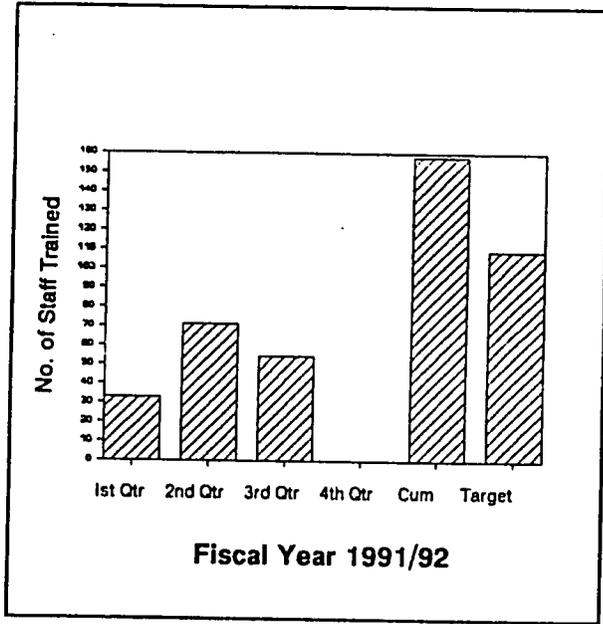
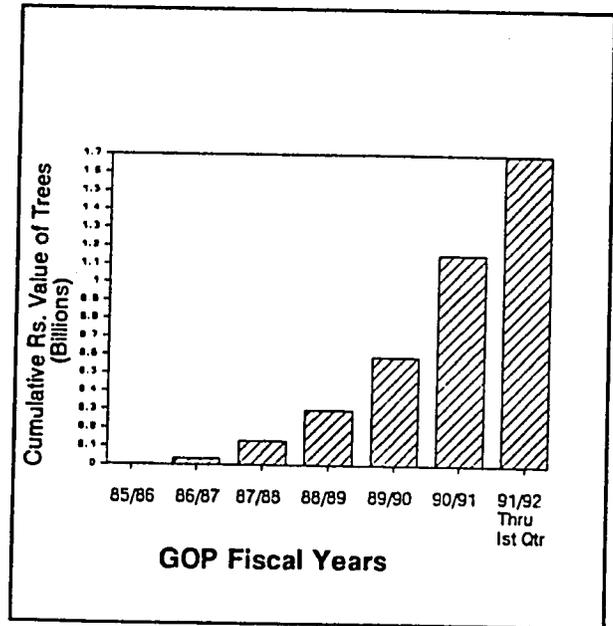
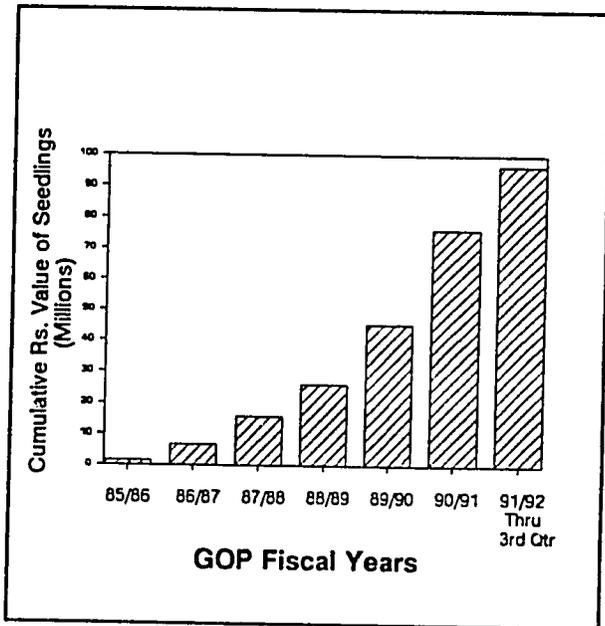


Figure 7. No. of Forest Department Staff Trained



(a) Cumulative Rs. Value of Farm Nursery Seedlings that have been Produced

(b) Cumulative Rs. Value of Trees at Time of Future Harvesting

Figure 8. Project Purpose Level Economic Indicators

Table 1. Third quarter's accomplishments by geographic location.

Name of Activity	3rd Qtr ACHIEVE 1991-92	PUNJAB	SINDH	NWFP	BALOCH	P.F.I./ Federal	Other
1. PLANTING							
No. Farms	3371	2930		184	257		
No. Plants	5072217	4069217		438000	565000		
2. NURSERY							
No. Units	321	170	1	92	57	1	
No. Plants	7934695	5833695	40000	960000	1026000	75000	
3. LAND DEVELOPMENT							
No. Acres	387	387					
4. SOIL CONSERVATION							
No. Acres	268	268					
5. SINDH IRR. PLANTATION							
Ac. Afforested	41	NA	41	NA	NA	NA	NA
Ac. Rehabilitated	0	NA		NA	NA	NA	NA
6. RESEARCH							
No. Projects	0						
7. TRAINING							
A. No. of Staff							
Overseas							
Sh. Term	0						
Lg. Term	0						
Tours	0						
Local							
M.Sc	0						
B.Sc	0						
Other	2	1				1	
Tours	29		13				16
B. No. of Farmers							
Tree Planting	4109	3390		344	375		
Nursery Tech.	32	17		9	6		
Land Development	4	4					
Soil Conserv.	3	3					
Mgmt/Mkt	10	10					
Motivators	13			13			
Tours	87		79				8
8. BUILDINGS							
No. Offices	0						
No. Nursery Huts	1			1			
No. Res/Train Labs	Nil						
No. Hostels	Nil						
No. Residences	0						

Table 2. 1991/92 fiscal year project targets and accomplishments by geographic location.

Name of Activity	PC-1 Target 1991-92	Achieve. Thru 3qtr	PUNJAB	SINDH	NWFP	BALUCH	P.F.I./ Federal/ Other
1. PLANTING							
No. Farms	26257	20474	10450		9173	851	
No. Plants	26257000	23987305	13296108		6112100	4579097	
2. NURSERY							
No. Units	447	601	298	2	179	120	2
No. Plants	33525000	20266195	9114095	60000	8932900	2067000	92200
3. LAND DEVELOPMENT							
No. Acres	26257	814	584			230	
4. SOIL CONSERVATION							
No. Acres	2250	285	285				
5. SINDH IRR. PLANTATION							
Ac. Afforested	1800	215	NA	215	NA	NA	NA
Ac. Rehabilitated	409	64	NA	64	NA	NA	NA
6. RESEARCH							
No. Projects	5	0					
7. TRAINING							
A. No. of Staff Overseas							
Sh.Term	15	3	1			1	1
Lg.Term	7	3		2		1	
Tours	10	3	1		1		1
Local							
M.Sc	9	1			1		
B.Sc	13	0					
Other	35	92	25	2	15	6	44
Tours	20	33		13	4		16
No. of Farmers							
Tree Planting	2875	15407	10639	2737	1034	997	
Nursery Tech.	225	60	30		18	12	
Land Development	260	9	6			3	
Soil Conservation	225	3	3				
Mgmt/Mkt	1000	197	191		6		
Motivators	50	31			18	13	
Tours	75	142	24	79	31		8
8. Buildings							
No. Offices	3	3	1			2	
No. Nursery Huts	3	3			1	2	
No. Res/Train Labs		0					
No. Hostels		0					
No. Residences	13	2		2			

Table 3. 1991/92 fiscal year project targets and accomplishments by quarter.

Name of Activity	PC-1 Target 1991-92	Achieve- ment in 1st Quarter	Achieve- ment in 2nd Quarter	Achieve- ment in 3rd Quarter	Achieve- ment in 4th Quarter	Cumulat. Achieve. 1991-92	Cumulat. Achieve. as % of Target
<b>1. PLANTING</b>							
No. Farms	26257	13985	3118	3371		20474	78.0%
No. Plants	26257000	14632423	4282665	5072217		23987305	91.4%
<b>2. NURSERY</b>							
No. Units	447	222	58	321		601	134.5%
No. Plants	33525000	11188100	1143400	7934695		20266195	60.5%
<b>3. LAND DEVELOPMENT</b>							
No. Acres	26257	315	112	387		814	3.1%
<b>4. SOIL CONSERVATION</b>							
No. Acres	2250		17	268		285	12.7%
<b>5. SINDH IRR. PLANTATION</b>							
Ac. Afforested	1800	130	44	41		215	11.9%
Ac. Rehabilitated	409		64			64	15.6%
<b>6. RESEARCH</b>							
No. Projects	5					0	0.0%
<b>7. TRAINING</b>							
<b>A. No. of Staff</b>							
<b>Overseas</b>							
Sh.Term	15	3				3	20.0%
Lg.Term	7	2	1			3	42.9%
Tours	10		3			3	30.0%
<b>Local</b>							
M.Sc	9		1			1	11.1%
B.Sc.	13					0	0.0%
Other	35	28	62	2		92	262.9%
Tours	20		4	29		33	165.0%
<b>B. No. of Farmers</b>							
Tree Planting	2875	5734	5564	4109		15407	535.9%
Nursery Tech.	225	22	6	32		60	26.7%
Land Development	260	3	2	4		9	3.5%
Soil Conserv.	225			3		3	1.3%
Mgmt/Mkt	1000	75	112	10		197	19.7%
Motivators	50	18		13		31	62.0%
Tours	75	31	24	87		142	189.3%
<b>8. BUILDINGS</b>							
No. Offices	3	2	1			3	100.0%
No. Nursery Huts	3	2		1		3	100.0%
No. Res/Train Labs	Nil						
No. Hostels	Nil						
No. Residences	13		2			2	15.4%

Table 4. Life of project targets and accomplishments by fiscal year.

Name of Activity	1985-92 PC-1 Target	1985/86 Achieved	1986/87 Achieved	1987/88 Achieved	1988/89 Achieved	1989/90 Achieved	1990/91 Achieved	1991/92 Achieved Thru 3qtr	1985-92 Achieved To Date	% Tar
1. PLANTING										
No. Farms	85240	112	2161	7395	12536	24851	48665	20474	116194	136
No. Plants	85240000	54554	1426219	4313595	7658702	12961302	24991741	23987305	75393418	88
2. NURSERY										
No. Units	1543	19	81	154	300	790	1378	601	3323	215
No. Plants	115725000	1388500	5281968	9033414	10179347	19319592	30990600	20266195	96459616	83
3. LAND DEVELOPMENT										
No. Acres	59024		2	3812	813	2715	5539	814	13695	20
4. SOIL CONSERVATION										
No. Acres	5372		50	35	35	405	2035	285	2845	53
5. SINDH IRR. PLANT.										
Mi. Canal Const	2					1	1		2	100
Ac. Afforested	3600						337	215	552	15
Ac. Rehabil.	1409					152	217	64	433	31
6. RESEARCH										
No. Projects	35	1		14	15	3	5		38	109
7. TRAINING										
A. No. of Staff Overseas										
Sh.Term	102		10	8	28	10	23	3	82	80
Lg.Term	36			2	1	3	2	3	11	31
Tours	40		5	7	8	2	1	3	26	65
Local										
M.Sc	43					3	19	1	23	53
B.Sc.	63					8	20		28	44
Other	245			147	63	65	204	92	571	233
Tours	150			1	8	54	65	33	161	107
B. No. of Farmers										
Tree Planting	20125	112	1002	4792	5978	9676	36806	15407	73775	367
Nursery Tech.	770					289	215	60	564	73
Land Dev.	690					25	55	9	89	13
Soil Conserv.	540					92	11	3	106	20
Mgmt/Mkt	1350						629	197	826	61
Motivators	500			11	11	23	23	31	99	20
Tours	500			7	43	268	223	142	683	137
8. BUILDINGS										
No. Offices	22					2	17	3	22	100
No. Nursery Hut	15					3	9	3	15	100
No. Res/Train L									0	
No. Hostels	1						1		1	100
No. Residences	77				2	6	12	2	22	29

## PROGRESS TOWARD PROJECT GOALS AND PURPOSE

This quarter enters the project into the second half of the seventh Pakistan fiscal year of the project. The success the Project is having on getting farmers to plant trees on their private farm lands is now expected to have a significant energy and economic impact on rural Pakistan within the project area. A broad array of Pakistan's wood-using forest industries are beginning to view farm forestry as a means of providing a sustainable supply of raw materials for their processing facilities.

Since 1985, more than 96 million trees have been raised in over 3,300 farm nurseries and these seedlings have been planted on more than 116,000 farms. At maturity (age 7), these trees will provide approximately 6.8 million metric tons of wood for use or sale by farm households. In addition to energy and home constructions use, new industrial markets are developing for the purchase of farm-grown wood that is being produced through this project. This wood has a farm gate value of more than U.S. \$67 million.

Important, from an institutional standpoint, social forestry schemes now being formulated throughout Pakistan are adopting the methods and implementation strategies used in the Forestry Planning and Development Project. The provincial forest department staffs are becoming increasingly comfortable and proficient in their role as technology transfer agents.

This report includes indicators which USAID uses to monitor progress towards project purpose. Figures 1, 3, 6, 7 and 8 graphically show the change in selected purpose level social/economic indicators over the life of the project.

## PROJECT ACCOMPLISHMENTS DURING THE QUARTER

### A. INSTITUTIONAL AND MANPOWER DEVELOPMENT

#### 1. Project Reporting

- Annual Work Plans were approved by the Federal Advisory Committee at their meeting on 19 January 1992.
- Annual Work Plan preparation for 1992/93 was initiated.

#### 2. National Policy

- In conjunction with the development of the Forestry Master Plan for Pakistan, formulation of strategies for the implementation of the National Policy for Forests, Wildlife, Watersheds and Rangelands, 1991 continues.

The Pakistan National Conservation Strategy was approved by the Federal Cabinet on March 1, 1992 making Pakistan the 23rd country in the world with an explicit national policy document for a sustainable future.

### 3. Training

#### a. Long-Term Overseas Training

- Amjad T. Virk, Balochistan Province, began his Ph.D. degree program in Wildlife Management at the University of Montana on 6 January 1992.
- Kanwar M. Suleman, PFI, began his M.Sc. degree program in Pulp and Paper at the University of Maine on 10 January 1992.
- Najmuddin Vistro, Sindh Province, began his M.Sc. degree program in Forest Economics at the University of Missouri on 14 January 1992.
- Tariq Mahmood, Punjab Province, began his M.Sc. degree program in Forest Economics at the University of Missouri on 14 January 1992.
- Shahid Rashid Awan, Punjab Province, began his M.Sc. degree program in Forestry Extension at University of Missouri on 21 January 1992.
- Eleven officers now are progressing towards M.Sc. degrees and two officers are progressing towards Ph.D. degrees in U.S. institutions.

#### b. Long-Term In-Country Training

- Dr. Mark Behan began instruction and preparation of lesson materials for the M.Sc. Plant Water Relations course at Pakistan Forest Institute on February 29.
- Proposal is under consideration for Dr. Hans Zuuring to provide M.Sc. instruction on Research Methods at Pakistan Forest Institute during Summer Term.

50 men and 8 women are progressing towards B.Sc. forestry degrees and 37 men and 6 women are progressing towards M.Sc. forestry degrees under FP&D Project scholarships at Pakistan Forest Institute.

- c. Short-Term Overseas Training
  - Prepared 19 training plans for forest officers nominated for short-term overseas training.
- d. In-Country Technical Training
  - One Punjab forest officer completed a day of instruction in the use of a computerized package to financial analyze agroforestry system.  
Person-months: 0.1
  - One federal forest officer completed a half-day of instruction in the use of a computerized package for printing reports.  
Person-months: 0.1
  - Organized and conducted a 14-day study tour of farm forestry activities throughout northern Punjab and NWFP for 16 Nepali forestry officers associated with the Nepal-Australia Community Forestry Project.  
Person-months: 10.2
  - Approved a scope of work to offer workshops on Environmental Management and Arborist Training to City Development Authority environmental division staff officers and field supervisors.
  - Proposal is under consideration to conduct a one-week conference on forest tree improvement and seed technology at Pakistan Forest Institute during the October, 1992.
- e. In-Country Farm Forestry Training
  - Organized and conducted half-day workshops for 4109 farmers involved in tree planting activities in Punjab, NWFP and Balochistan.  
Person-months: 93.4
  - Organized and conducted two-day workshops for 31 farmers involved in managing farm nurseries in Punjab, NWFP and Balochistan.  
Person-months: 2.8
  - Organized and conducted one-day workshops for 7 farmers involved in land development and soil conservation activities in Punjab.  
Person-months: 0.3

- Organized and conducted a 2-day field workshop in Attock District, Punjab for 10 farmers on tree felling and bucking techniques appropriate in farm forestry woodlots.  
Person-months: 0.9
- Organized and conducted a half-day field program in Taxila, Punjab for 160 women interested in farm forestry activities.  
Person-months: 3.6
- Organized and conducted a one-day field program in Attock and Rawalpindi Districts, Punjab for 15 farmers and 10 forest officers on marketing of Eucalyptus.  
Person-months: 1.1
- Organized and conducted a half-day field program in collaboration with Kashmir Development Corporation, Jhelum for 130 farmers interested in the management and industrial utilization of farm grown trees.  
Person-months: 3.0
- Organized and conducted one-day workshops for 13 village motivators in NWFP.  
Person-months: 0.6
- Organized and conducted a one-day tour of farm forestry activities in central/southern Sindh and a one-day seminar on Tree Farming and Wood Industries in Karachi for 79 farmers, 8 industrialists, 13 government officials.  
Person-months: 9.1

#### 4. Technical Assistance

TAT members met with Officers, Project Directors and their staffs in Punjab, Sindh, NWFP and Balochistan provinces, at the Pakistan Forest Institute, and at the Punjab Forest Research Institute. The following highlights are in addition to the TAT's advising and training responsibilities.

- Presented a paper on private forestry at the Corporate Responsibility Seminar in Islamabad on January 27, 1992 sponsored by Manal Corporation.
- Provided review comments to the Office of the Inspector General of Forests on the draft Forestry, Watershed, Range Management and Wildlife Eighth 5-Year Plan.
- Provided review comments on the Regional Wood Energy Development Program in Asia with the Program's Evaluation Mission from Bangkok.

- Prepared a technical note on Desertification and Appropriate Technology in the Management of Arid Lands for the Office of the Inspector General of Forests.
- Attended the Forestry Extension Advisors meeting in Gilgit hosted by AKRSP.
- Attended a CSIRO workshop at Faisalabad, Punjab on research on waterlogged, saline and sodic sites.
- Ms. Mamoonah Wali Mohammad, SDFO Social Forestry & Extension, terminated her employment with the TAT on March 5, 1992 and joined the Pakistan Forest Institute, Division of Education, as a full-time Instructor on a career appointment.
- M.I. Sheikh participated as a member of an ACIAR team to review Australian projects on the development of saline soils in Pakistan.

#### 5. Research Management

- Conducted field site reviews of 24 Farm Forestry Research Projects at Miani (4 studies), Kharian (10 studies), Sialkot (1 study), and D.I. Khan (9 studies). Individual recommendations to continue, terminate, revise and/or publish research were made on each study.
- Dr. J.A. Vozzo, M.I. Sheikh and G. Blake met with each provincial CCF and the DG, PFI to begin detailed preparation for a National Tree Seed Symposium scheduled for Pakistan in late October 1992.

### B. OPERATIONAL ACTIVITIES

1. Barani/Irrigated Plantations - Balochistan, NWFP, Punjab, and Sindh
  - a. Nursery Development
    - 312 farm forestry nurseries were established and began operation in Punjab, NWFP, Balochistan and Sindh.
  - b. Tree Planting
    - 5.1 million tree seedlings were planted by farmers in Punjab, NWFP and Balochistan.

- c. Extension/Outreach/Recognition
  - 4171 farmers received training in the raising and planting of tree seedlings/cuttings, in the managing and marketing of farm grown trees, and in land and soil conservation methods in Punjab, NWFP and Balochistan.
  - A "Trees are Life" Poster Contest was organized for women students and staff of the Federal Government Post Graduate College, Wah Cantt. Approximately 1200 women students and staff participated in the post contest convocation and winning posters were displayed at the Sadequain Art Gallery in Islamabad.
- d. Land Development and Soil Conservation
  - 655 acres of land development and soil conservation works were completed in the Punjab.
- e. Monitoring and Evaluation
  - Approved a scope of work to assess equipment, facility and staff requirements for establishment of a GIS capability within the O/IGF.
- 2. Irrigated Plantations - Sindh
  - 41 acres of irrigated plantation were planted or seeded.
- 3. NGO Activities
  - Collaborated in a half-day field program organized by Manal Corporation for 100 farmers on the raising and management of tree crops in Khushab District, Punjab.
  - Revised a USAID proposal to implement NGO activities under the Forestry Planning and Development Project.
  - Provided assistance to the Pakistan Tree Farm Society in acquiring its official charter.
  - Assisted Joanna Booser, USDA Forestry Support Program, in exploring opportunities for conducting a Women in Forestry conference in Pakistan in 1992 in conjunction with NGO and donor organizations.

#### 4. Special Studies

##### o Use/Marketing/Economics of Farm Forestry Products

- Assisted farmers in Attock District, Punjab prepare for sale on their farms 463 trees of Eucalyptus (approx. sales price was Rs. 40,000).
- Completed construction of the solar dry kiln unit at PFI, Peshawar.
- Established formal contact with the following wood using industries:
  - Nadeem Furniture, Karachi, Sindh
  - Mohsin Match, Peshawar, NWFP
  - Khyber Match, Peshawar, NWFP
  - National Wood, Lalamusa, Punjab
  - Sadiq Plywood, Lahore, Punjab
  - Nazir Furniture, Gujrat, Punjab

##### o Farm Forestry Field Guides

- Technical Note No. 5 - Raising of Nurseries. Urdu document was printed and distributed.
- Technical Note No. 6 - Seed Collection. Urdu document was printed and distributed.
- Technical Note No. 7 - Thinning Block Plantations. Urdu document was prepared, printed and distributed.
- Technical Note No. 8 - Measuring Farm Grown Trees. English and Urdu documents were prepared, printed and distributed.
- Technical Note No. 9 - Air Seasoning. Urdu document was prepared, printed and distributed.

##### o Farm Forestry Communications

- Farm Forestry Newsletter, Vol. 3, Issue No. 3 Urdu versions printed and distributed.
- Published and distributed the 1992 Tree Farmers Pocket Planner.
- Article which highlights the FP&D Project titled "Pakistan Emphasizes Afforestation Work" was printed in the December 1992 issue of World Wood, Vol 32, No. 6, pp. 11-12.
- Printed and distributed "Sarsabz Pakistan" bumper stickers.

- Filmed 40 minutes of unedited video on felling and bucking trees on farm forestry woodlots.

#### 5. Research

- Assessed the one-year performance of different clones of poplar planted throughout the Punjab and supervised the planting of additional poplar and willow nurseries.
- Identified agroforestry models on private farmer fields where data could be collected by PFI and PFRI researchers to quantify agroforestry systems in Pakistan.
- Research Report No. 3 - Cross-Arms of Eucalyptus and Poplar Woods. English document was prepared, printed and distributed.
- 33 research projects and studies are currently on-going.

### C. CONSTRUCTION

#### 1. PFI

- Construction on the women's hostel is 65% complete.

#### 2. Provincial Forest Departments

- 1 nursery hut was completed in NWFP.
- Construction on 2 nursery huts and 2 RFO Offices in Punjab has been initiated.
- Sites for 3 offices and 3 nursery huts in Sindh have been identified.

#### 3. Research and Training Facilities

- The design contract was awarded and design has begun for hostels at Ghora Gali and Abbotabad, 2 lecture rooms at Gatwala and a research/training unit at Quetta and Miani.

## PROJECT IMPLEMENTATION ISSUES

### A. ACTION ON THIS QUARTER'S ISSUES

#### Implementation of Expanded NGO Activities

Winrock International's proposal to implement a NGO grant unit in conjunction with the Technical Assistance Team was approved by the O/IGF. USAID is currently evaluating the proposal for possible funding and implementation.

### B. NEXT QUARTER'S ISSUES

#### Implementation of Expanded NGO Activities

Winrock International's proposal to implement a NGO grant unit in conjunction with the Technical Assistance Team is expected to be finalized. It is important that the NGO grant unit be rapidly mobilized so grantees are promptly identified and grants are awarded.

**ACTION:** The TAT, O/IGF and USAID will implement jointly procedures to quickly select a grant unit manager and implement grant unit activities.

#### Extension of the PACD and Development of Detailed Activity Plans for Life of Project

A PACD extension of sixteen months is currently under discussion. During the extension, activities are to emphasize linkages between farm producers and wood using industries and the effective involvement of NGO's in forestry activities. A Life of Project short- and long-term implementation plan must quickly be developed to (1) schedule activities resulting from the extension, and (2) provide detailed estimates of the resources and funds required to accomplish life of project activities.

**ACTION:** The O/IGF, provincial Forest Departments and TAT, in collaboration with USAID, will develop detailed work plans for the remainder of the project. These plans should be drafted and initially discussed during the next quarter at a Project Monthly Review meeting.

## PROPOSED PROJECT ACTIVITIES FOR NEXT QUARTER

### A. INSTITUTIONAL AND MANPOWER DEVELOPMENT

#### 1. Project Reporting and Coordination

- Extension of the Forestry Planning and Development Project's completion date (PACD) to December 31, 1994.

- Complete preparation of annual work plans.
2. National and Provincial Policy
- Implementation of the National Policy for Forests, Wildlife, Watersheds and Rangelands, 1991 continues.
3. Training
- a. Long-Term Overseas
- Finalize placement of selected M.Sc. nominees in U.S. forestry institutions.
- b. Long-Term In-country
- Dr. Mark Behan will complete the Plant Water Relations course and begin instruction in M.Sc. course on Forest Ecology.
  - Dr. Hans Zuuring will begin instruction in M.Sc. course on Research Methods.
- c. Short-Term Overseas
- Nominees placed and many begin participation in overseas workshops.
- d. In-Country Technical Training
- Conduct workshops on Environmental Management and Arborist Training to City Development Authority environmental division staff officers and field supervisors.
  - Conduct workshop on the use of specialized scientific equipment for federal and provincial research officers.
  - Conduct workshop on research methods for federal and provincial research officers.
  - Conduct workshops on management and marketing of farm grown trees.
- e. In-Country Farm Forestry Training
- Conduct Farmer workshops on tree planting.
  - Conduct Farmer workshops on managing and operating farm nurseries.
  - Conduct Farmer workshops on the management, marketing and utilization of farm grown wood.

4. Technical Assistance

- TAT members will meet with Officers, Project Directors and their staffs in the Balochistan, Punjab, NWFP and Sindh provinces, at the Pakistan Forest Institute, and at the Punjab Forest Research Institute.

5. Research Management

- Begin preparation for the Annual Research Review Meeting at PFI.

B. OPERATIONAL ACTIVITIES

1. Barani/Irrigated Plantations - Balochistan, NWFP, Punjab, and Sindh

a. Nursery Development

- Farm nurseries begin production of seedlings for the monsoon planting season.

b. Tree Planting

- Farmers plant trees on rainfed, irrigated and waterlogged lands.

c. Extension/Outreach

- Provide tree crop management information to farmers.

d. Soil Conservation and Land Development

- Emphasize the soil conservation and land development activities in the project.

e. Monitoring and Evaluation

- Assess equipment, facility and staff requirements for establishment of a GIS capability within the O/IGF.

2. Irrigated Plantations - Sindh

- Continue rehabilitation and reforestation activities.

3. NGO Activities

- Initiate project support for NGO activities.

#### 4. Special Studies

- o Use/Marketing/Economics of Farm Forestry Products
  - Facilitate interaction between farm forestry producers and industrial wood users on the marketing and utilization of farm grown wood.
- o Farm Forestry Field Guides
  - Technical Note No. 9 - Air Seasoning.  
Print and distribute English version.
- o Farm Forestry Communications
  - Farm Forestry Newsletter, Vol. 4, Issue No. 1  
Print and distribute.

#### 5. Research

- Continue review of on-going research projects and studies. Prepare publications on completed studies.

### C. CONSTRUCTION

#### 1. PFI

- Construction continues on the Woman's Hostel.

#### 2. Provincial Forest Departments

- Construction continues on offices, nursery huts and residences.
- Designs are completed for technical school classrooms and hostels, and research laboratories.

**ATTACHMENT A. TECHNICAL ASSISTANCE TEAM FINANCIAL SUMMARY FOR  
PHASE II.**

<u>Line Item</u>	<u>4-Year Budget Amounts</u>	<u>Mar 31, 91 Cumulative Expenses</u>	<u>Percent Expended</u>
1. Salaries and Wages	\$1,158,431	\$ 743,647.14	64.19
2. Fringe Benefits	305,479	177,038.13	57.95
3. Overhead	682,021	432,204.47	63.37
4. Travel, Transportation & Per Diem	700,673	352,647.12	50.33
5. Allowances	300,363	193,710.10	64.49
6. Other Direct Costs	404,791	302,131.01	74.64
7. Local Training	150,000	98,465.49	65.64
8. Commodities	400,000	386,459.11	96.61
9. Subcontracts	75,000	16,781.00	22.37
Total Expended	\$4,176,758	\$2,703,083.57	64.72

**ATTACHMENT B. USAID AND GOP LIFE OF PROJECT FINANCIAL SUMMARY.**

<u>Line Item</u>	<u>Budgeted Amounts</u>	<u>Mar 31, 91 Cumulative Expenses</u>	<u>Percent Expended</u>
<u>USAID</u>			
Technical Assistance	\$ 7,500,000	\$ 6,032,811	80.44
Training	4,250,000	2,057,376	48.41
Commodities	3,400,000	2,000,412	58.84
Other Costs	11,900,000	8,012,344	67.33
Evaluation	450,000	172,026	38.23
Total Reimbursable	\$27,500,000	\$18,274,969	66.45
<u>GOP</u>			
Non-Reimbursable	Rs. 178,000,000	Rs. 60,783,928	34.15

**ATTACHMENT C. PROJECT PUBLICATIONS PRODUCED DURING THE THIRD  
QUARTER OF PAKISTAN FISCAL YEAR 1991/1992.**

**TECHNICAL NOTES**

- M.I. Sheikh. 1991. Raising of Nurseries. Technical Note No. 5, (Urdu) Forestry Planning and Development Project, 12 p.
- M.I. Sheikh. 1991. Seed Collection. Technical Note No. 6, (Urdu) Forestry Planning and Development Project, 12 p.
- Gary G. Naughton and Charles R. Hatch. 1991. Thinning Block Plantations. Technical Note No. 7, (Urdu) Forestry Planning and Development Project, 8 p. plus charts.
- Gary G. Naughton and Charles R. Hatch. 1992. Measuring Farm Grown Trees. Technical Note No. 8, (English) Forestry Planning and Development Project, 9 p.
- Gary G. Naughton and Charles R. Hatch. 1992. Measuring Farm Grown Trees. Technical Note No. 8, (Urdu) Forestry Planning and Development Project, 9 p.
- Gary G. Naughton. 1992. Air Seasoning. Technical Note No. 9, (Urdu) Forestry Planning and Development Project, 7 p.

**TRAINING MATERIALS**

- J.A. Vozzo. 1992. Planning an International Symposium in Pakistan. Implementation Manual. USDA Forest Service and Mississippi State University, 84 p.
- J.A. Vozzo. 1992. Planning a Pakistan National Tree Seed Symposium. Implementation Manual. USDA Forest Service and Mississippi State University, 62 p.

**RESEARCH REPORTS**

- Siraj-ud-Din. 1992. Cross-Arms of Eucalyptus and Poplar Woods. Research Report No. 3, Forestry Planning and Development Project, 5 p.

**NEWSLETTERS**

- Forestry Planning and Development Project. 1991. Farm Forestry Newsletter. (Urdu) Vol 3, Issue 3, 8 p.

## PAPERS

- M.I. Sheikh. 1992. Desertification and Appropriate Technologies in the Management of Arid Lands. Paper prepared for Pakistan National Commission for UNESCO, 11 p.

## CONSULTANCY REPORTS

- Lawrence S. Davis. 1992. Training Report for the Workshop on Advanced Quantitative Forest Management. Consultant Report, Winrock International, 11 p.
- J.A. Vozzo. 1992. Enhancing the Potential of Pakistan Forest Tree Seeds. Consultant Report, Winrock International, 7 p. plus appendices.