

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

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

QUARTERLY PROGRESS REPORT

1 January - 31 March, 1993

**ISLAMABAD, PAKISTAN
April 30, 1993**



FORESTRY PLANNING & DEVELOPMENT PROJECT

Government of Pakistan-USAID

3 May 1993

TO: Kh. Hameedullah
Project Officer

FROM: Charles R. Hatch
Chief of Party

SUB: Quarterly Report for Period 1 January - 31 March, 1993

Attached is the Quarterly Report for the third quarter of Pakistan FY 92/93 covering the period 1 January - 31 March, 1993. Graphs and tables in this report summarize FY 92/93 achievements as well as life of project achievements.

Distribution:

Contract Office	3
Project Office	4
PPC/DIU - Washington, D.C.	3
O/IGF	20
DG/PFI	1
Director PFRI	1
Project Directors	5 (1 each)
TAT	4
NGO Grant Unit	1
WI/HQ	2

Winrock International

Technical Assistance Team

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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 1992/93

1 January - 31 March 1993

SUMMARY

The following charts give a visual summary of project activities for the 3rd quarter and cumulative for Pakistan fiscal year 1992/93, 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 1992-1993, and cumulative for life of project. Included in the tabular summary is:

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

Table 2. The 1992/93 fiscal year project targets and accomplishments by geographic location.

Table 3. The 1992/93 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 1992/93.

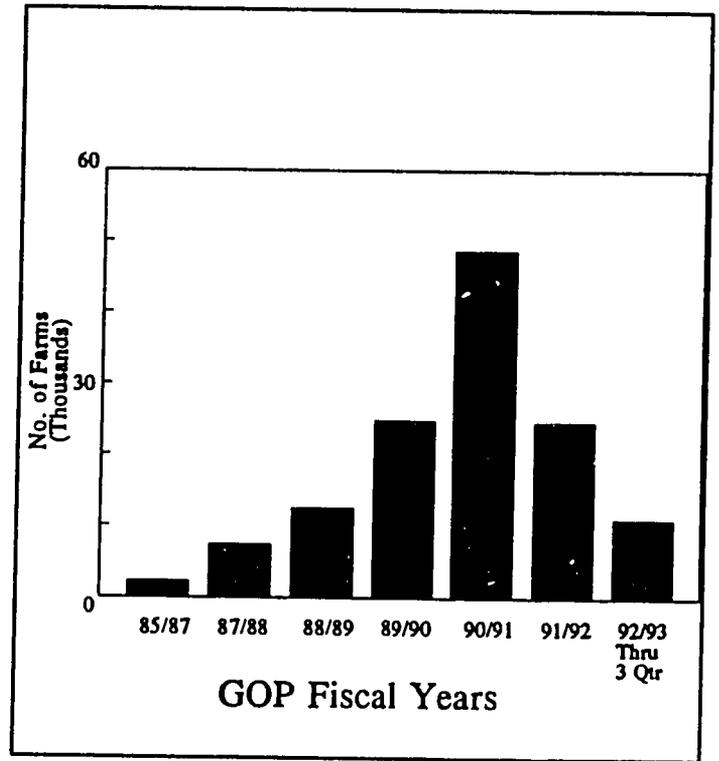
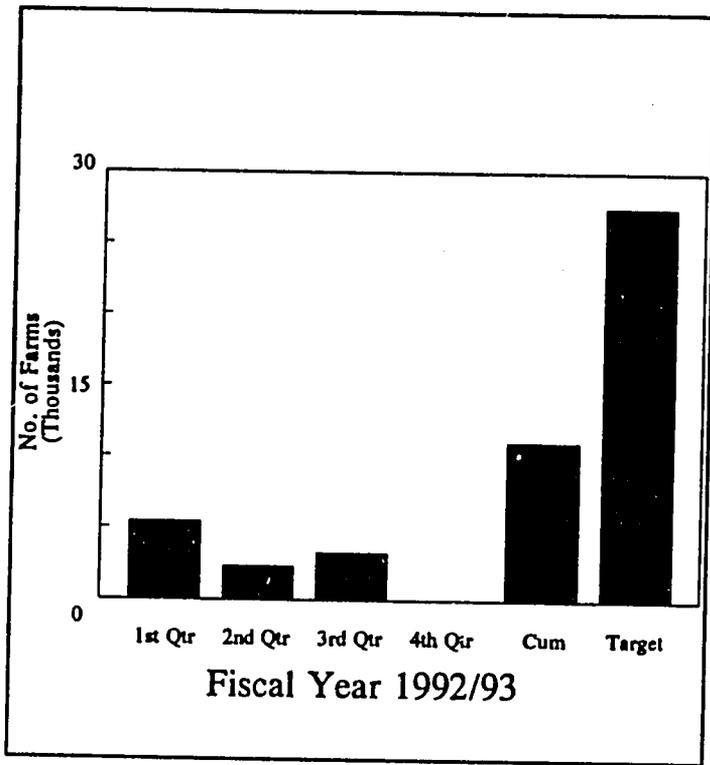


Figure 1. No. of Farm Households Participating in Farm Forestry

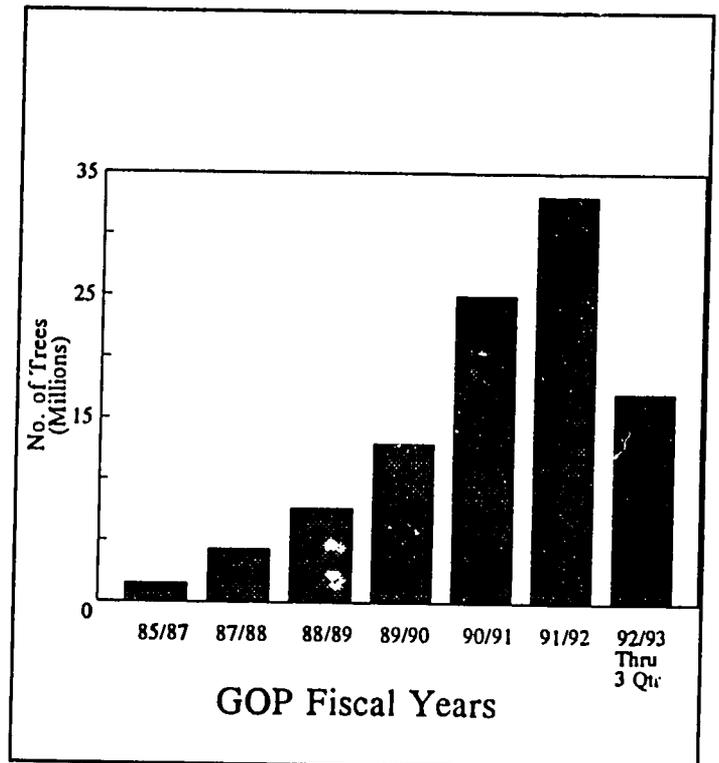
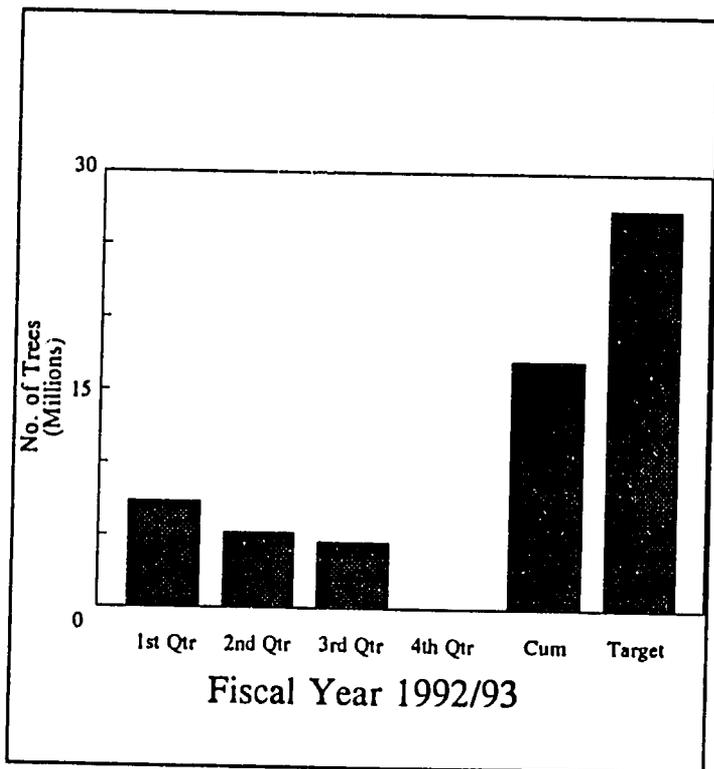


Figure 2. No. of Trees Planted on Farms

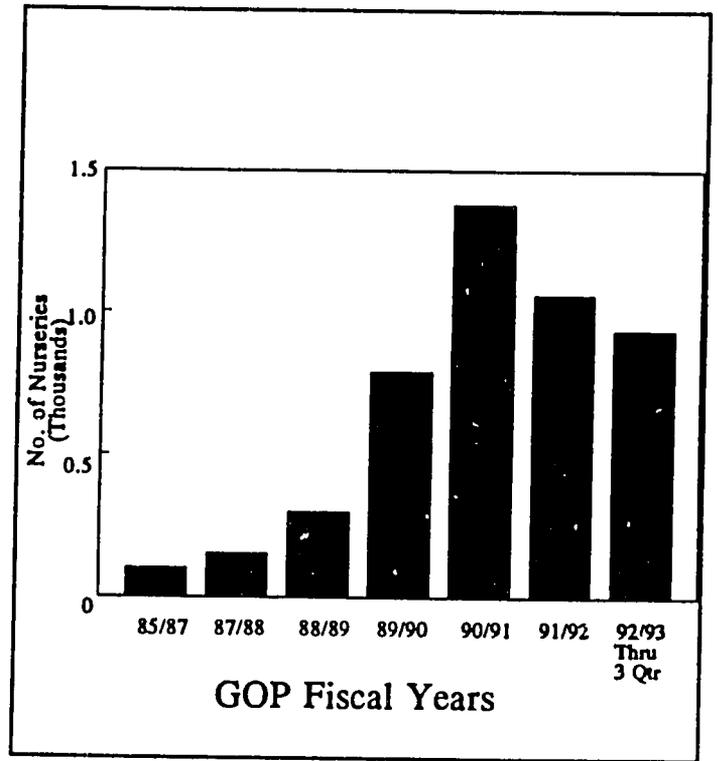
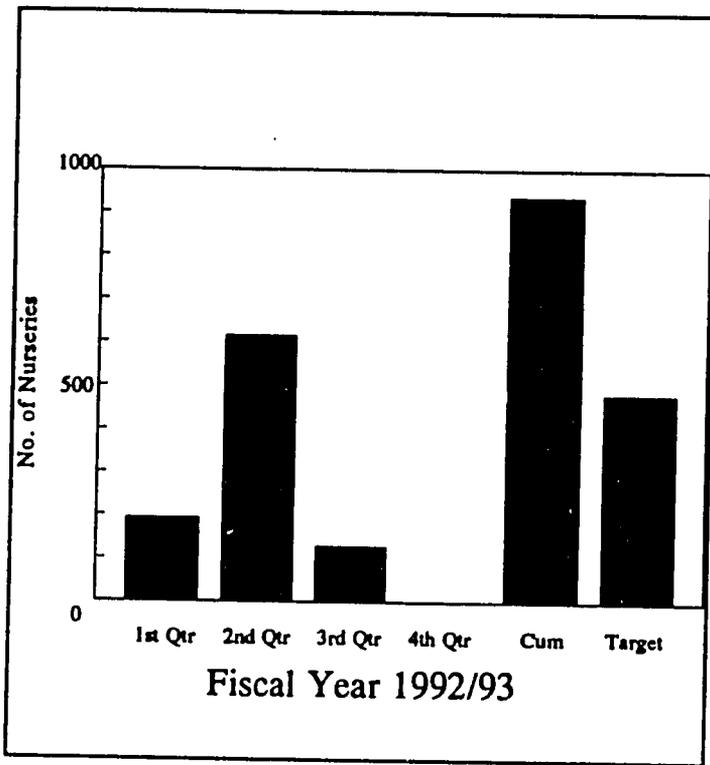


Figure 3. No. of Farm Nurseries

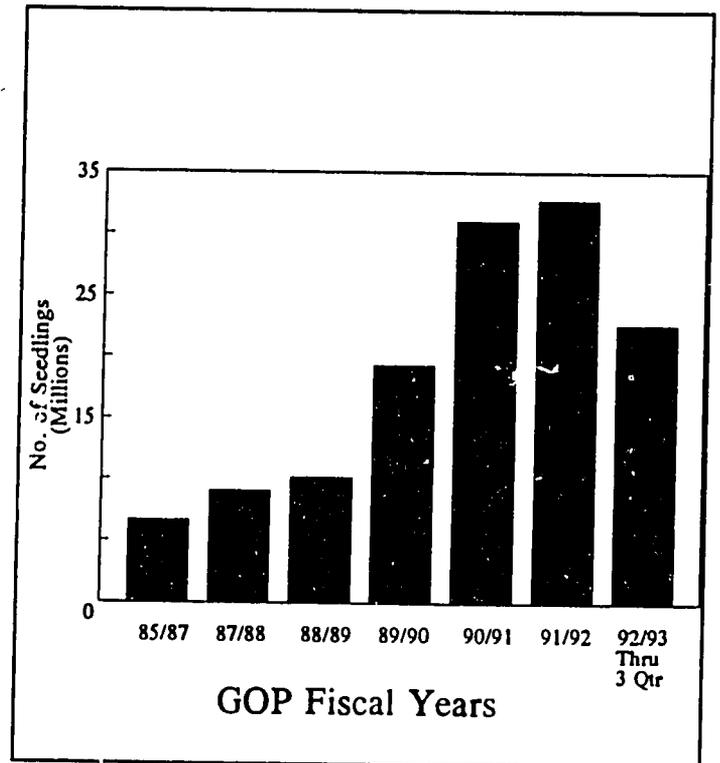
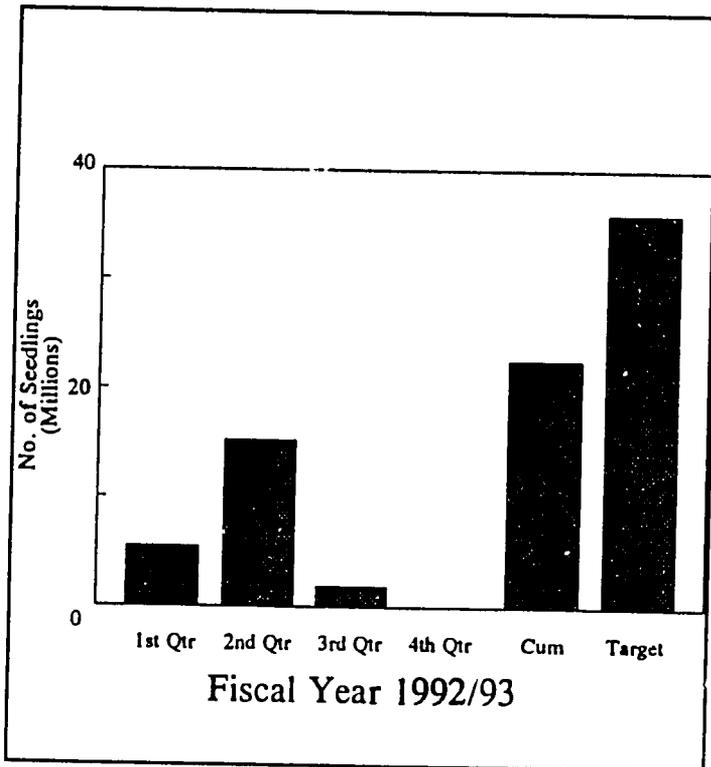


Figure 4. No. of Seedlings Raised in Farm Nurseries

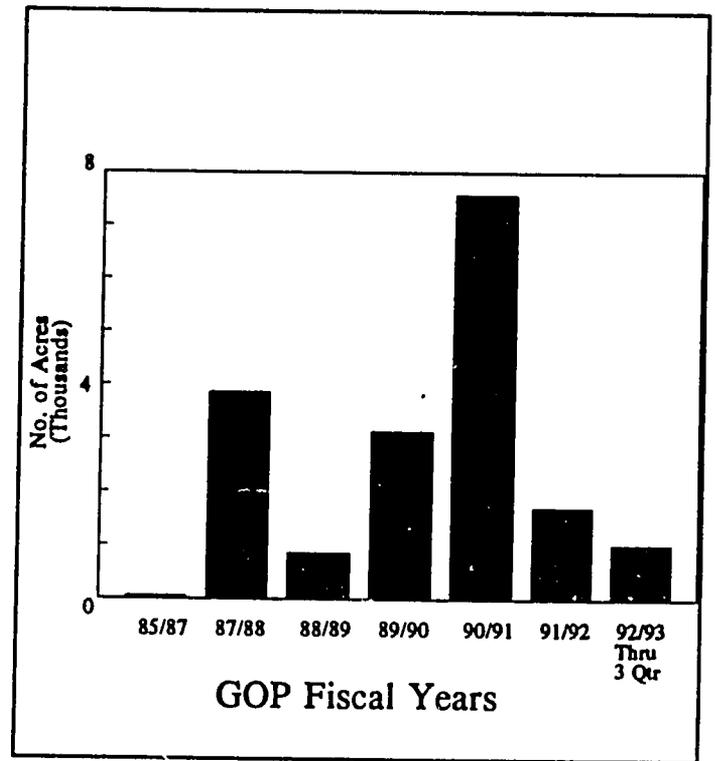
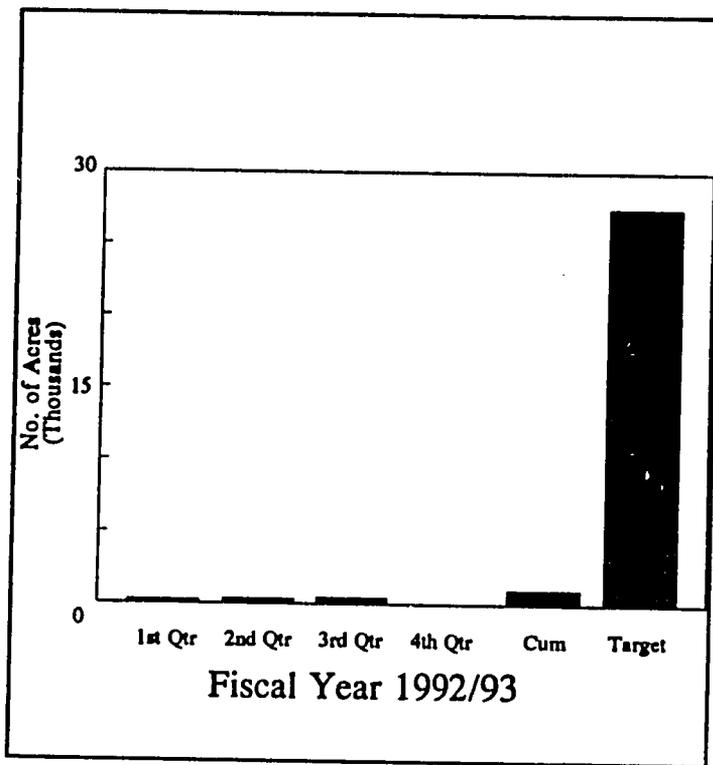


Figure 5. No. of Acres Treated under Soil Conservation and Land Development Activities

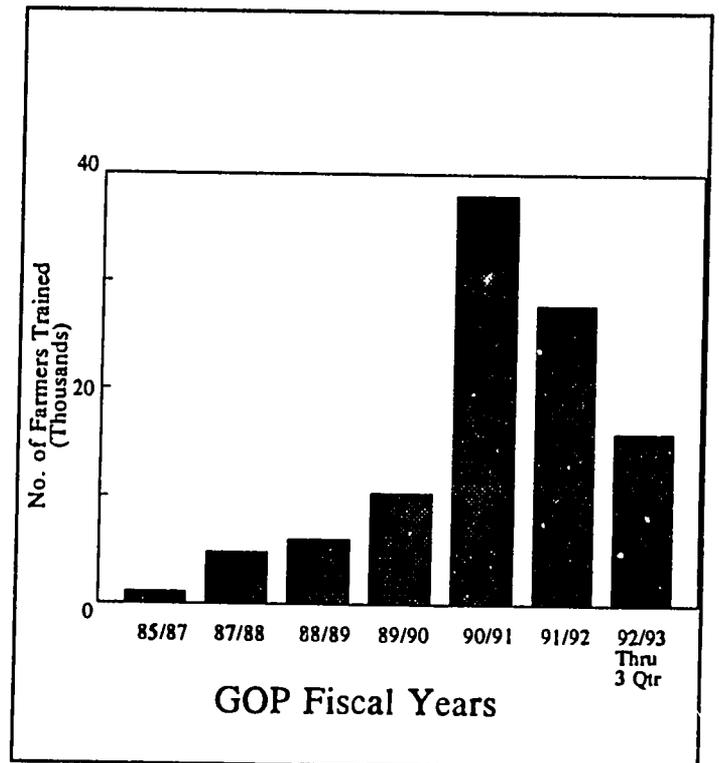
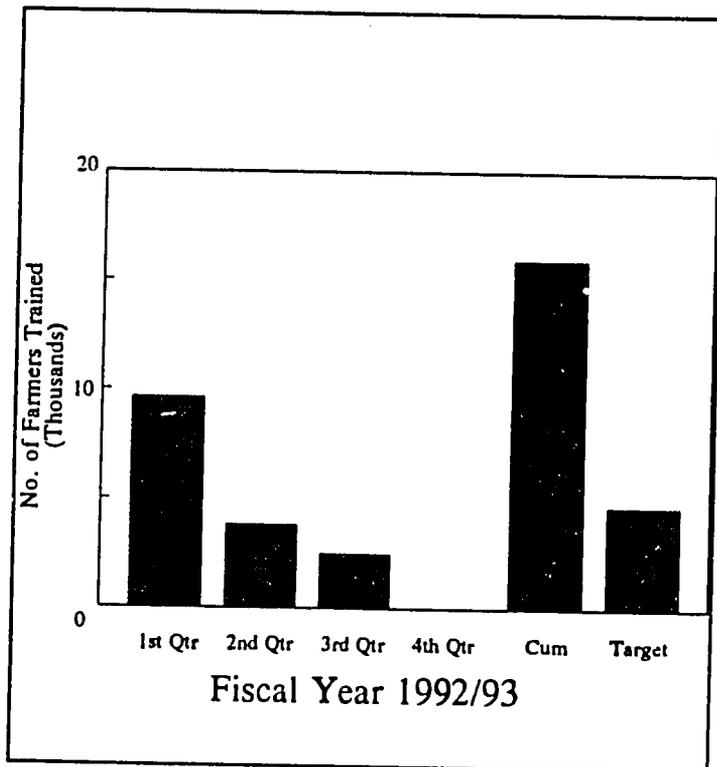


Figure 6. No. of Farmers Trained in Farm Forestry Activities

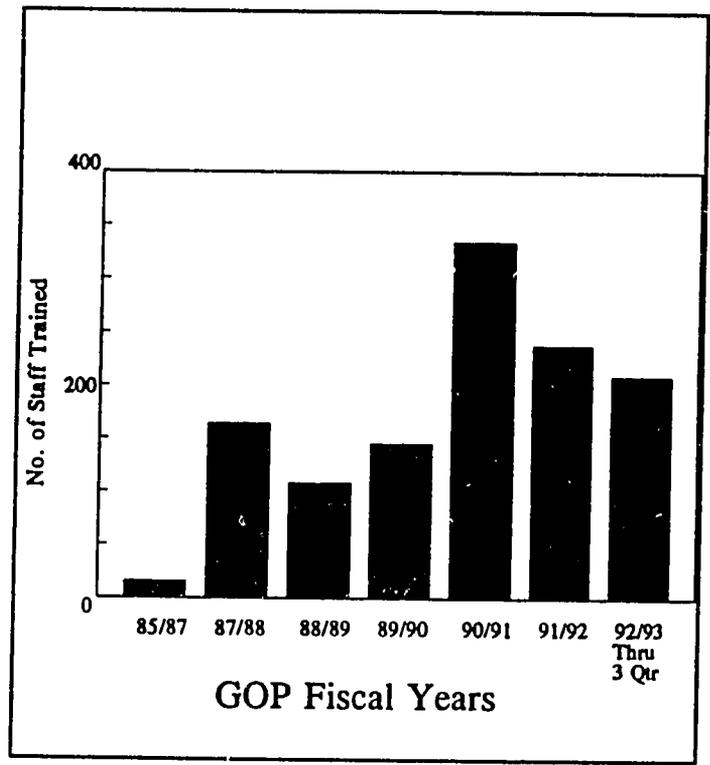
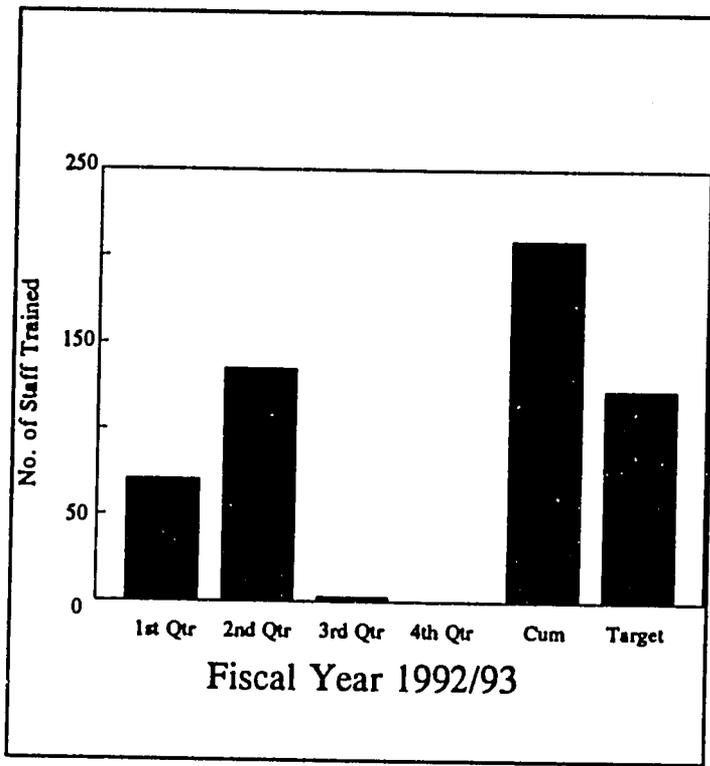
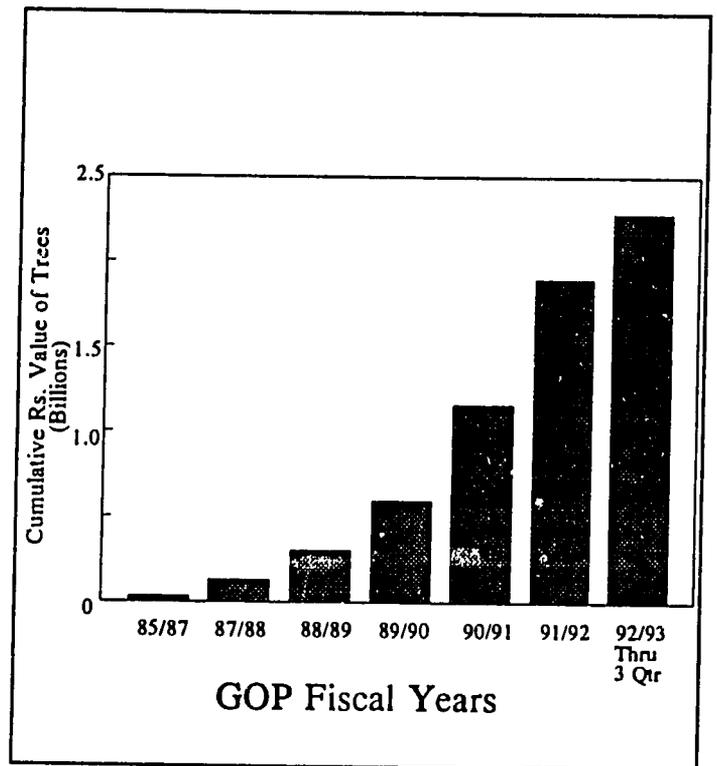
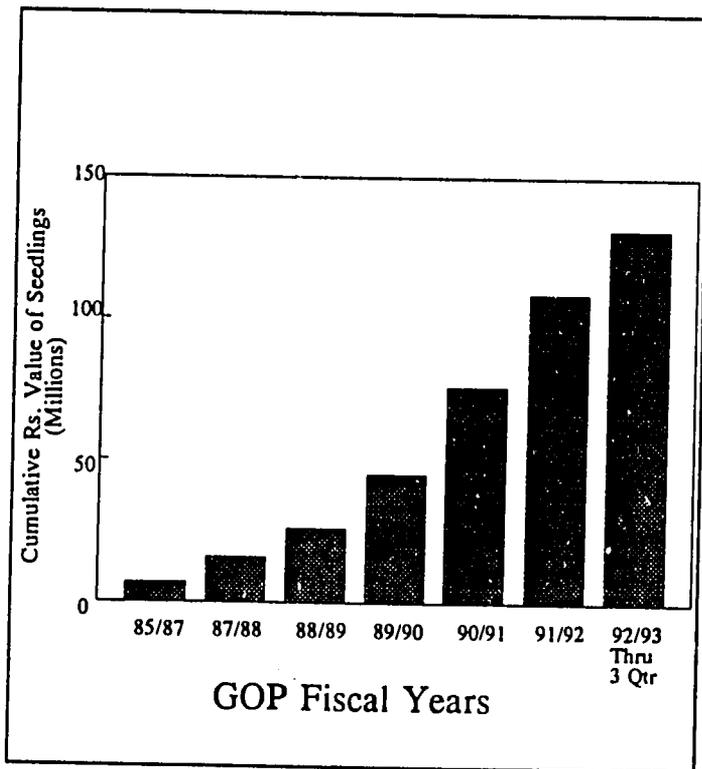


Figure 7. No. of Forest Department Staff Trained



(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 1992-93	PUNJAB	SINDH	MWFP	BALUCH	P.F.I./ Federal	Other
1. PLANTING							
No. Farms	3,265	1,629	16	1,360	260		
No. Plants	4,605,229	2,807,229	74,900	1,074,000	650,000		
2. NURSERY							
No. Units	129	0	76	32	20	1	
No. Plants	1,904,400	0	1,088,400	401,000	400,000	15,000	
3. LAND DEVELOPMENT							
No. Acres	375	302		40	33		
4. SOIL CONSERVATION							
No. Acres	60	27		33			
5. SINDH IRR. PLANTATION							
Ac. Afforested	1,103	NA	1,103	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	1	1					
Tours	0						
Local							
M.Sc	0						
B.Sc	0						
Other	2			2			
Tours	0						
B. No. of Farmers							
Tree Planting	2,020	1,629	50	33	308		
Nursery Tech.	120	24	76		20		
Land Development	311	302			9		
Soil Conserv.	27	27					
Mgmt/Mkt	11			10			
Motivators	7				7		
Tours	0						
8. BUILDINGS							
No. Offices	0						
No. Nursery Huts	0						
No. Res/Train Labs	Nil						
No. Hostels	0						
No. Residences	0						1

Table 2. 1992/93 fiscal year project targets and accomplishments by geographic location.

Name of Activity	PC-1 Target 1992-93	Achieve. Thru 3qtr	PUNJAB	SINDH	NWFP	BALOCH	P.F.I./ Federal/	Other
1. PLANTING								
No. Farms	27469	11027	6630	34	3363	1000		
No. Plants	27469000	17135161	10742161	367000	2581000	3445000		
2. NURSERY								
No. Units	480	937	271	126	138	400	2	
No. Plants	36000000	22650000	8323600	2437400	3826000	8000000	63000	
3. LAND DEVELOPMENT								
No. Acres	25260	748	619		96	33		
4. SOIL CONSERVATION								
No. Acres	2228	260	62		33	165		
5. SINDH IRR. PLANTATION								
Ac. Afforested	1800	1403	NA	1403	NA	NA	NA	NA
Ac. Rehabilitated	409	0	NA		NA	NA	NA	NA
6. RESEARCH								
No. Projects	5	6					6	
7. TRAINING								
A. No. of Staff								
Overseas								
Sh.Term	15	13	4		3	1	5	
Lg.Term	4	2	1				1	
Tours	10	2	1				1	
Local								
M.Sc	20	20	13	3	3	1		
B.Sc	19	19	11	2	5	1		
Other	35	130	34	6	6	1	55	28
Tours	20	23	19				4	
B. No. of Farmers								
Tree Planting	2875	14296	12231	150	67	1848		
Nursery Tech.	225	903	230	126	7	540		
Land Development	260	401	310		2	89		
Soil Conserv.	225	41	31			10		
Mgmt/Mkt	1000	156	120	25	10			1
Motivators	50	25			6	19		
Tours	75	123			13	110		
8. Buildings								
No. Offices	2	1	1					
No. Nursery Huts	2	2	2					
No. Res/Train Labs	Nil							
No. Hostels	1	1					1	
No. Residences	10	0						

Table 3. 1992/93 fiscal year project targets and accomplishments by quarter.

Name of Activity	PC-1 Target 1992-93	Achieve- ment in 1st Quarter	Achieve- ment in 2nd Quarter	Achieve- ment in 3rd Quarter	Achieve- ment in 4th Quarter	Cumulat. Achieve. 1992-93	Cumulat. Achieve. as % of Target
1. PLANTING							
No. Farms	27469	5423	2339	3265		11027	40.1%
No. Plants	27469000	7341595	5188337	4605229		17135161	62.4%
2. NURSERY							
No. Units	480	194	614	129		937	195.2%
No. Plants	36000000	5514600	15231000	1904400		22650000	62.9%
3. LAND DEVELOPMENT							
No. Acres	25260	204	169	375		748	3.0%
4. SOIL CONSERVATION							
No. Acres	2228	32	168	60		260	11.7%
5. SINDH IRR. PLANTATION							
Ac. Afforested	1800		300	1103		1403	77.9%
Ac. Rehabilitated	409					0	0.0%
6. RESEARCH							
No. Projects	5	1	5			6	120.0%
7. TRAINING							
A. No. of Staff Overseas							
Sh.Term	15	9	4			13	86.7%
Lg.Term	4		1	1		2	50.0%
Tours	10		2			2	20.0%
Local							
M.Sc	20		20			20	100.0%
B.Sc.	19		19			19	100.0%
Other	35	58	70	2		130	371.4%
Tours	20	4	19			23	115.0%
B. No. of Farmers							
Tree Planting	2875	9481	2795	2020		14296	497.3%
Nursery Tech.	225	64	719	120		903	401.3%
Land Development	260	3	87	311		401	154.2%
Soil Conserv.	225	3	11	27		41	18.2%
Mgmt/Mkt	1000	55	90	11		156	15.6%
Motivators	50	5	13	7		25	50.0%
Tours	75	13	110			123	164.0%
8. BUILDINGS							
No. Offices	2		1			1	50.0%
No. Nursery Huts	2		2			2	100.0%
No. Res/Train Labs	Nil						
No. Hostels	1		1			1	100.0%
No. Residences	10					0	0.0%

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

Name of Activity	LOP PC-1 Target	1985-93 PC-1 Target	1985/87 Achieved	1987/88 Achieved	1988/89 Achieved	1989/90 Achieved	1990/91 Achieved	1991/92 Achieved	1992/93 Achieved Thru 3qtr	1985-93 Achieved To Date	% Tar
1. PLANTING											
No. Farms	105500	93100	2273	7395	12536	24851	48665	24689	11027	131436	141
No. Plants	133725000	111720000	1480773	4313595	7658702	12961302	24991741	33044501	17135161	101585775	91
2. NURSERY											
No. Units	1783	1501	100	154	300	790	1378	1060	937	4719	314
No. Plants	133725000	112575000	6670468	9033414	10179347	19319592	30990600	32694660	22650000	131538081	117
3. LAND DEVELOPMENT											
No. Acres	99284	83600	2	3812	813	2715	5539	1400	748	15029	18
4. SOIL CONSERVATION											
No. Acres	7600	6400	50	35	35	405	2035	310	260	3130	49
5. SINDH IRR. PLANT.											
Mi. Canal Const	2	2				1	1			2	100
Ac. Afforested	5400	4547					337	1220	1403	2960	65
Ac. Rehabil.	1818	1531				152	217	64		433	28
6. RESEARCH											
No. Projects	50	40	1	14	15	3	5	3	6	47	118
7. TRAINING											
A. No. of Staff											
Overseas											
Sh.Term	117	99	10	8	28	10	23	4	13	96	97
Lg.Term	43	34		2	1	3	2	3	2	13	38
Tours	50	38	5	7	8	2	1	3	2	28	74
Local											
M.Sc	52	42				3	19	1	20	43	102
B.Sc.	76	61				8	20		19	47	77
Other	280	236		147	63	65	204	164	130	773	328
Tours	170	145		1	8	54	65	63	23	214	148
B. No. of Farmers											
Tree Planting	23000	19368	1114	4792	5978	9676	36806	26134	14296	98796	510
Nursery Tech.	1780	1500				289	215	598	903	2005	134
Land Dev.	990	840				25	55	99	401	580	69
Soil Conserv.	760	640				92	11	4	41	148	23
Mgmt/Mkt	2500	2000					629	589	156	1374	69
Motivators	600	550		11	11	23	23	63	25	156	28
Tours	570	480		7	43	268	223	313	123	977	204
8. BUILDINGS 1/											
No. Offices	41 (27)	24				2	17	3	1	23	96
No. Nursery Hut	34 (20)	17				3	9	3	2	17	100
No. Hostels	3 (4)	2					1		1	2	100
No. Residences	90 (0)	74			2	6	12	4		24	32
No. Res/Train L Rooms	4 (6) 5 (10)	Nil Nil									

1/ PC-1 Targets (USAID Commitment)

PROGRESS TOWARD PROJECT GOALS AND PURPOSE

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

Since 1985, 131 million trees have been raised on over 4,700 farm nurseries and these seedlings have been planted on more than 131,000 farms. At maturity (age 7), these trees will provide approximately 7.6 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 U.S. \$174 million.

Important from an institutional standpoint, social forestry schemes now being formulated throughout Pakistan, both by the federal and provincial governments and by foreign donors, 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. They are now beginning to put increasing emphasis on strengthening wood producer and wood user linkages.

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

- The Annual Work Plan for 1992/93 was approved by the Federal Advisory Committee during their 13 January 1993 meeting.
- A Project Director's meeting was held on 14 January 1993 to review progress on project activities and to resolve implementation issues.

2. National Policy

- The final report of the Forestry Sector Master Plan for Pakistan was distributed on 14 February 1993.

- During this quarter, the World Bank and the Asian Development Bank conducted an Identification Mission to assess development opportunities in the Forest Sector.

3. Training

a. Long-Term Overseas Training

- Muhammad Farooq, Punjab Province, completed his M.Sc. degree program in social forestry at the University of Missouri on 6 January 1993. Upon completion of his training he was posted at the Punjab Forest School, Ghora Gali.

Person-months: 24.0

- Thirteen 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

- Organized and initiated a process which will lead to the revision of the Forest Guard and Forester curricula in the Forest Schools of Pakistan.

- 67 individuals (50 men and 17 women) are continuing their 2-year B.Sc. degree programs in Farm Forestry at PFI, Peshawar on project provided fellowships.

- 42 individuals (33 men and 9 women) are continuing their 2-year M.Sc. degree programs in Farm Forestry at PFI, Peshawar on project provided fellowships.

c. Short-Term Overseas Training

- One officer is currently attending a 1-month USDA Graduate School course on Project Management.

d. In-Country Technical Training

- Organized and conducted a 1-day workshop on Eucalyptus sawlog marketing for 2 NWFP forest officers.

Person-months: 0.1

e. In-Country Farm Forestry Training

- Organized and conducted half-day workshops for 2,020 farmers involved in tree planting activities in Punjab, NWFP, Sindh and Balochistan.

Person-months: 45.9

- Organized and conducted one-day workshops for 96 farmers involved in managing farm nurseries in Sindh and Balochistan.
Person-months: 4.4
- Organized and conducted a 4-day workshop on the management and operation of private farm nurseries for 20 women at PFRI, Gatwala, Punjab.
Person-months: 3.6
- Organized and conducted a half-day workshop for 4 farmers on the raising of poplar nurseries in Taxila, Punjab.
Person-months: 0.1
- Organized and conducted one-day workshops for 338 farmers involved in land development and soil conservation activities in Punjab and Balochistan.
Person-months: 15.4
- Organized and conducted a 1-day workshop on Eucalyptus sawlog marketing for 10 farmers in Kohat, NWFP.
Person-months: 0.5
- Organized and conducted a half-day workshop on the use of a portable wood moisture meter for an employee of Comforta Furniture.
Person-months: 0.1
- Organized and conducted one-day workshops for 7 village motivators in Balochistan.
Person-months: 0.3

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.

- Assisted the Office of the Inspector General of Forests in implementation of the 1993 Spring Tree Planting Campaign functions.
- Participated in the World Bank, Pakistan Forest Sector Development Identification Mission held from January 24 to February 11, 1993.
- Prepared background material for the Office/ Inspector General of Forests on farm forestry, women in social forestry, and forestry extension.

- Prepared a report on sericulture in Pakistan for the Ministry of Food, Agriculture and Cooperatives.
- Prepared a Concept Paper for USAID and the GOP on endowment grants to NGOs.
- Prepared a report on the private sale of seedlings from Kissan nurseries.
- Richard Bottger completed his 4-week consultancy (January 6 - February 3, 1993) to assess the NGO Grant Unit's management system and recommend actions which might improve its operations and the sustainability of the NGOs with which it works.
Person-months: 1.1
- Burton F. Swain completed his 4-week consultancy (January 7 - February 3, 1992) under a subcontract with International Executive Service Corps to improve the veneering process at Pakistan Chipboard, Jhelum, Punjab.
Person-months: 1.1

B. OPERATIONAL ACTIVITIES

1. Barani/Irrigated Plantations - Balochistan, NWFP, Punjab and Sindh
 - a. Nursery Development
 - 129 farm forestry nurseries were established and began operation in Sindh, Balochistan and NWFP.
 - b. Tree Planting
 - 4.6 million tree seedlings were planted by farmers in Punjab, Balochistan, Sindh and NWFP.
 - c. Extension/Outreach/Recognition
 - A Field Day and Mass Tree Plantation Campaign Ceremony was held on 16 February 1993 in Islamabad and attended by approximately 300 students, farmers, industrialists, government officials and forest officers.
 - 2,489 farmers received training in the raising and planting of tree seedlings/cuttings, management and marketing of farm woodlot products, and in land and soil conservation methods in Punjab, Balochistan, Sindh and NWFP.
 - 7 village motivators were trained in Balochistan.

d. Land Development and Soil Conservation

- 435 acres of land development and soil conservation works were completed in the Punjab, Balochistan and NWFP.

e. Monitoring and Evaluation

- Collected survey data on farm forestry nurseries in Punjab and NWFP to determine the number of seedling which are being sold directly to the general public.
- Development of a GIS capability at PFI was initiated and procurement of GIS equipment was initiated.

2. Irrigated Plantations - Sindh

- 1,103 acres of afforestation works were completed this quarter.

3. NGO Activities

- Consultancy to assess the NGO Grant Unit's management system and recommend actions which might improve its operations and the sustainability of the NGOs with which it works was completed.
- The FP&D Grant Unit awarded grants to the following NGOs:

Anjuman-i-Kasht Karan, Sindh
Seedling Production - \$7,500
Hafizabad Literacy Promotion Program, Punjab
Training - \$1,200
National Farm Guide Council, Punjab
Seedling Production - \$14,400
Belcur Advisory & Social Development Organ., NA
Awareness - \$9,100
Sindh Agriculture and Forest Workers Coop., Sindh
Seedling Production - \$6,600
Pakistan Rural Support Program, Punjab
Seedling Production - \$13,600
Dar-ul-Falah, Faisalabad, Punjab
Seedling Production - \$4,600
World Wide Fund for Nature, Lahore, Punjab
Awareness - \$4,500

4. Special Studies

o Use/Marketing/Economics of Farm Forestry Products

- Marketed 500 tons of farm grown Eucalyptus to chipboard manufactures at Jhelum, Punjab.

- Assisted a wholesale wood dealer (thekadar) in Attock District, Punjab in the identification of farmers who wished to sell Eucalyptus.
 - Consultancy, in collaboration with International Executive Service Corps, to improve the veneering process at Pakistan Chipboard, Jhelum, Punjab was completed.
- o Farm Forestry Field Guides
- Technical Note No. 2: Farm Windbreaks.
Sindhi document was prepared, printed and distributed.
 - Technical Note No. 3: Tree Planting.
Sindhi document was prepared, printed and distributed.
 - Technical Note No. 10: Tree Planting and Extension.
Sindhi document was prepared, printed and distributed.
 - Technical Note No. 12: Economic Opportunities from Tree Farming.
English document was prepared, printed and distributed.
 - Tree Farmers Guide No. 6: Nursery Seedlings - grading, root pruning and hardening off.
English document was prepared, printed and distributed.
 - Tree Farmers Guide No. 7: Estimating Weight of Standing Eucalyptus Trees.
English document was prepared, printed and distributed.
 - Tree Farmers Guide No. 8: Instructions for Raising a Poplar Nursery.
English document was prepared, printed and distributed.
- o Farm Forestry Training Materials
- Planting Technique.
Sindhi document was prepared, printed and distributed.
 - Guide Book on Farmers and Tree Planting.
Urdu document was prepared, printed and distributed.

o Degree Training Teaching Materials

- In Press

Forest Policy, Administration and Management in Pakistan by Abeed Ullah Jan.

Review and Analysis of Forest Policies of Pakistan by Abeed Ullah Jan.

5. Research

- PFI initiated a wood market survey in the project area of NWFP.
- 47 research projects and studies have been initiated to date.

C. CONSTRUCTION

1. Provincial Office Facilities

- Construction of remaining RFO office in Punjab is 96% complete.
- Construction of 1 DFO and 2 RFO Offices, and 3 nursery huts in Sindh has been initiated.

2. Provincial Research and Training Facilities

- Proposals for construction of hostels at Ghora Gali and Abbottabad, 2 lecture rooms at Gatwala and a research/training unit at Quetta and Miani have been received and are being evaluated.

PROJECT IMPLEMENTATION ISSUES

A. ACTION ON THIS QUARTER'S ISSUES

World Bank Social Forestry Identification Mission

The Provincial Forest Departments of Punjab and NWFP, and the Office of the Inspector General of Forests participated in the World Bank Agriculture Environment/Social Forestry Project Identification Mission. USAID, with GOP concurrence, designated a member of the Technical Assistance Team to serve as a member of the Identification Mission. The Mission identified possible farm forestry follow-on programs which could help sustain private sector initiatives associated with the FPD Project. Initial project preparation activities have been started by the Punjab Province. A World Bank project design mission is schedule

to initiate preparation activities in the Punjab Province and the Capital Development Authority beginning June, 1993.

B. NEXT QUARTER'S ISSUES

World Bank Forestry Project Design Mission

Since the Forestry Planning and Development Project will terminate in December 1994, importance has been placed on identifying mechanisms which might provide the Government of Pakistan development assistance to continue social forestry activities at or above their current level. The World Bank Forestry Project Design Mission scheduled for June 1993 has added importance in this context.

ACTION: The O/IGF, USAID and TAT will facilitate, as appropriate, the World Bank's mission to facilitate the design of a forestry project for the Punjab Province and the Capital Development Authority.

Reimbursement of Private Farmers for Unpaid Expenses Incurred under Nursery Contracts.

Private nursery seedling production contracts for seedlings needed in the second and third quarters of FY 1992/93 were formalized during the first quarter of that fiscal year. Due to unforeseen budget reductions, the Punjab Forest Department has not received adequate appropriations to honor their existing private nursery seedling production contracts. This is placing severe hardship on these small, village level agri-businesses. Because of the critical nature of this activity relative to maintaining project momentum, a PIL No. 55 solution should be considered.

ACTION: The O/IGF and USAID, in collaboration with the TAT, need to immediately assess this problem. The Punjab Forest Department, in collaboration with the O/IGF and the TAT, is currently collecting data which will clarify the magnitude of this problem. Next quarter a decision needs to be taken concerning the need to implement a PIL No. 55 solution.

PROPOSED PROJECT ACTIVITIES FOR NEXT QUARTER

A. INSTITUTIONAL AND MANPOWER DEVELOPMENT

1. Project Reporting and Coordination

- Begin Preparation of annual work plans.

2. National and Provincial Policy

- Implementation of the National Policy for Forests, Wildlife, Watersheds and Rangelands, 1991 continues.
- Assessment of development opportunities identified in the Forestry Sector Master Plan is formally undertaken.

3. Training

a. Long-Term Overseas

- M.Sc. and Ph.D. students continue degree training in U.S. forestry institutions.

b. Long-Term In-country

- Formal meetings of Forest School principals are held to review and revise Forest Guard and Forester curricula.
- B.Sc. and M.Sc. scholarship students continue their two year program of forestry training.

c. Short-Term Overseas

- Nominees begin departure for overseas workshops.

d. In-Country Technical Training

- Conduct workshops on farm forest technologies.
- Assist with implementation of the Malakand Social Forestry Project forestry extension workshop.

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.

- Participate in the World Bank Forest Project Appraisal Mission.

5. Research Management

- Prepare for the spring Research Review Committee meeting.

B. OPERATIONAL ACTIVITIES

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

a. Nursery Development

- Farm nurseries distribute 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

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

e. Monitoring and Evaluation

- Complete in-depth survey of farm nurseries.
- Implement consultancy report which identified equipment, facility and staff requirements for the establishment of a GIS capability within the O/IGF.

2. Irrigated Plantations - Sindh

- Continue rehabilitation and reforestation activities.

3. NGO Activities

- Provide grants to Pakistan NGOs for activities which strengthen farm forestry programs.

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

- Prepare and distribute a Forester Field Guide on Suitable Poplar Clones for Different Ecological Zones in Pakistan.
- Prepare and distribute a Forester Field Guide on Species Recommended for Different Edaphic and Climatic Sites and Method of Planting.
- Prepare and distribute a Forester Field Guide on Establishing Seed Production Areas.
- Prepare and distribute a Forester Field Guide on Expected Returns from Farm Grown Trees.

o Farm Forestry Research Documents

- Prepare and distribute a Research Note on the Assessment of Poplar Clones in the Forestry Planning and Development Project Kissan Nurseries.

5. Research

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

C. CONSTRUCTION

1. Provincial Office Facilities

- Construction completed on the remaining office in Punjab.
- Construction initiated on offices and nursery huts in Sindh.

2. Provincial Research and Training Facilities

- Construction contracts signed 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 Amount</u>	<u>31 Mar 93 Cumulative Expended</u>	<u>Percent Expended</u>
1. Salaries and Wages	\$1,158,431	\$1,018,137.84	87.89
2. Fringe Benefits	305,479	235,286.74	77.02
3. Overhead	682,021	591,409.07	86.71
4. Travel, Transportation & Per Diem	700,673	477,144.72	68.10
5. Allowances	300,363	260,969.19	86.88
6. Other Direct Costs	425,696	468,530.44	110.06
7. Local Training	150,000	177,222.01	118.15
8. Commodities	400,000	399,908.31	99.98
9. Subcontracts	75,000	78,271.00	104.36
Total Expended	\$4,197,663	\$3,706,879.32	88.31

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

<u>Line Item</u>	<u>Budgeted Amount</u>	<u>31 Mar 93 Cumulative Expended</u>	<u>Percent Expended</u>
<u>USAID</u>			
Technical Assistance	\$ 7,500,000	\$ 6,983,574	93.11
Training	4,250,000	2,222,551	52.30
Commodities	3,400,000	2,438,239	71.71
Other Costs	11,900,000	10,031,360	84.30
Evaluation	450,000	175,726	39.05
Total Reimbursable	\$27,500,000	\$21,851,450	79.46
<u>GOP</u>			
Non-Reimbursable	Rs. 178,000,000	Rs. 90,744,460	50.98

**ATTACHMENT C. PROJECT PUBLICATIONS PRODUCED DURING THE THIRD
QUARTER OF PAKISTAN FISCAL YEAR 1992/1993.**

PROCEEDINGS

K.M. Siddiqui (Ed.). 1993. National Workshop on Tree Seed Technology. Proceedings, Pakistan Forest Institute, Peshawar, 97 p.

TECHNICAL NOTES

Nazir Ahmad Malik and Gary G. Naughton. 1993. Economic Opportunities from Tree Farming. Technical Note No. 12, (English) Forestry Planning and Development Project, 19 p.

TREE FARMERS GUIDES

M.I. Sheikh. 1993. Nursery Seedlings - Grading, Root Pruning and Hardening Off. Tree Farmers Guide No. 6, (English) Forestry Planning and Development Project, 2 p.

Gary G. Naughton. 1993. Estimating Weight of Standing Eucalyptus Trees. Tree Farmers Guide No. 7, (English) Forestry Planning and Development Project, 2 p.

M.I. Sheikh. 1993. Instructions for Raising a Poplar Nursery. Tree Farmers Guide No. 8, (English) Forestry Planning and Development Project, 4 p.

TRAINING MATERIALS

Abeedullah Jan and M.I. Sheikh. 1993. Planting Technique. Training brochure. (Urdu, Sindhi and English) Forestry Planning and Development Project, 2 p.

M.I. Sheikh. 1993. Farmers and Tree Planting. Guide Book. (Urdu) Forestry Planning and Development Project, 32 p.

PAPERS

Gary G. Naughton. 1993. Private Sector Strategy - Forestry Planning and Development Project (Phase II). In "Proceedings of the Forestry Extension Coordinators Meeting" held 24th to 26th February 1993 at Gilgit, Northern Areas, Pakistan. p. 44 - 46.

Tahir Wadood Malik. 1993. Pakistan Tree Farm Society. In "Proceedings of the Forestry Extension Coordinators Meeting" held 24th to 26th February 1993 at Gilgit, Northern Areas, Pakistan. p. 61 - 62.

Gary G. Naughton. 1993. Proposed Strategy for Support of NGO Activities Associated with the Forestry Planning and Development Project. In "Proceedings of the Forestry Extension Coordinators Meeting" held 24th to 26th February 1993 at Gilgit, Northern Areas, Pakistan. p. 65 - 68.

CONSULTANCY REPORTS

Richard Bottger. 1993. NGO Management. Consultant Report, Winrock International, 10 p.

B.F. (Ted) Swain. 1993. Veneer Slicing Consultancy. Consultant Report, International Executive Service Corps, 2 p.