

PD-APR-92

FORESTRY PLANNING & DEVELOPMENT PROJECT
GOVERNMENT OF PAKISTAN - USAID

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

QUARTERLY PROGRESS REPORT

1 April - 30 June, 1992

ISLAMABAD, PAKISTAN
July 30, 1992



FORESTRY PLANNING & DEVELOPMENT PROJECT

Government of Pakistan-USAID

30 July 1992

TO: Kh. Hameedullah
Project Officer

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

SUB: Quarterly Report for Period 1 April-30 June, 1992

Attached is the Quarterly Report for the fourth quarter of Pakistan FY 91/92 covering the period 1 April - 30 June, 1992. Graphs and tables in this report also summarize FY 91/92 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	2
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 4th Quarter of Fiscal Year 1991/92

1 April - 30 June 1992

SUMMARY

The following charts give a visual summary of project activities for the 4th 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.

- 1'

The following tables give a tabular summary of project activities for the 4th quarter and cumulative for Pakistan fiscal year 1991-1992, and cumulative for life of project. Included in the tabular summary is:

Table 1. Fourth 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 4th quarter of fiscal year 1991/92. Attachment D lists publications and reports produced by the project during fiscal year 1991/92.

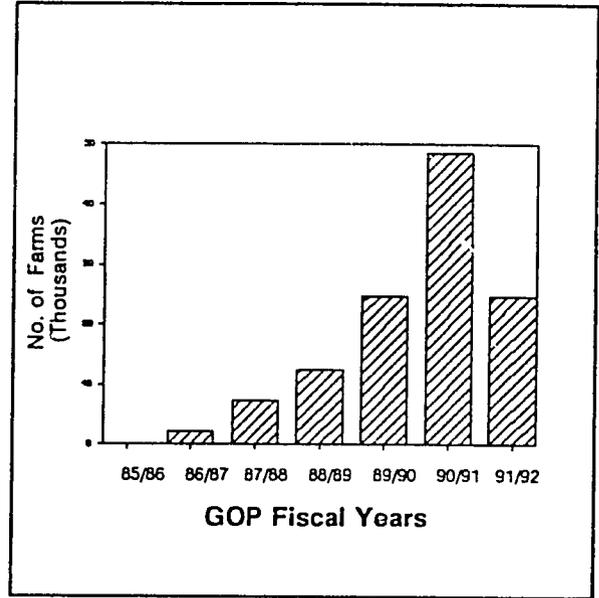
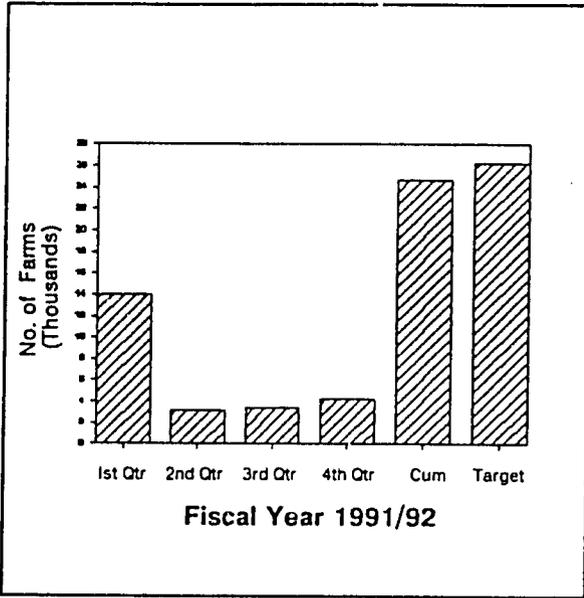


Figure 1. No. of Farm Households Participating in Farm Forestry

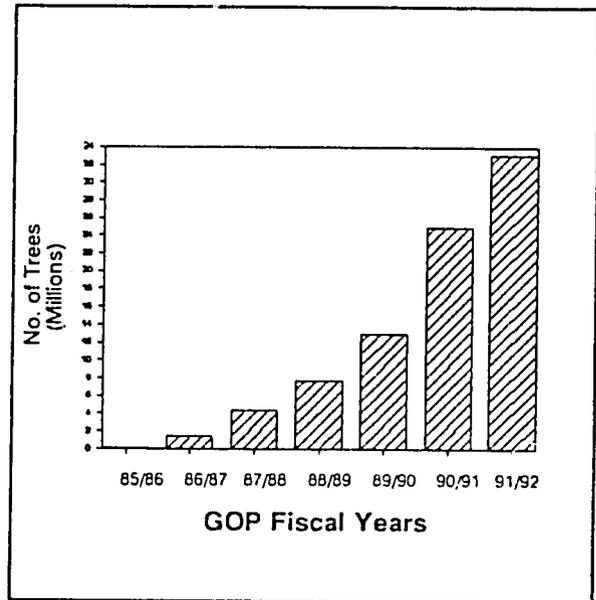
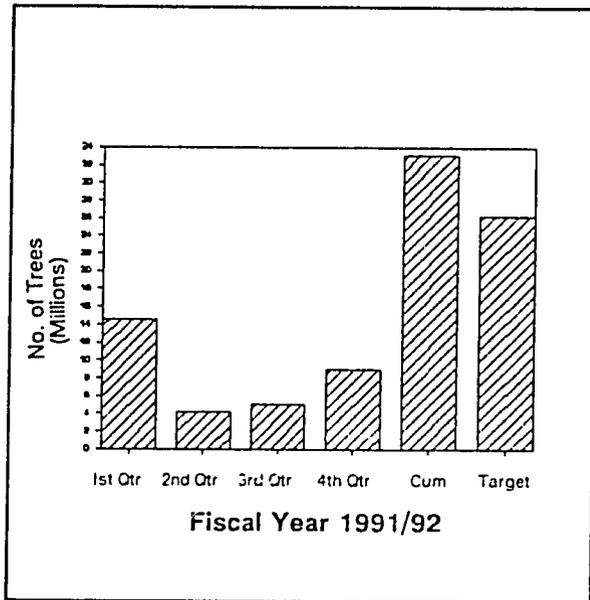


Figure 2. No. of Trees Planted on Farms

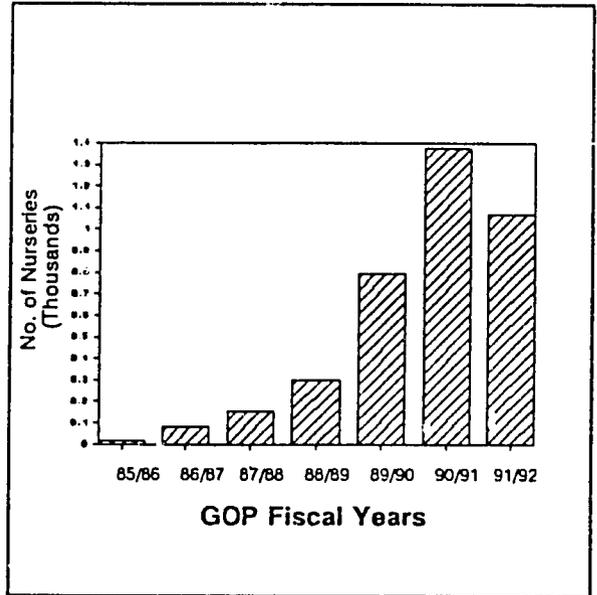
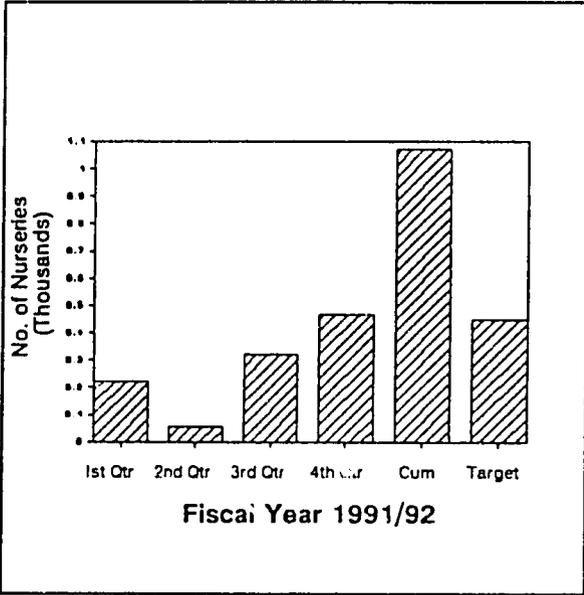


Figure 3. No. of Farm Nurseries

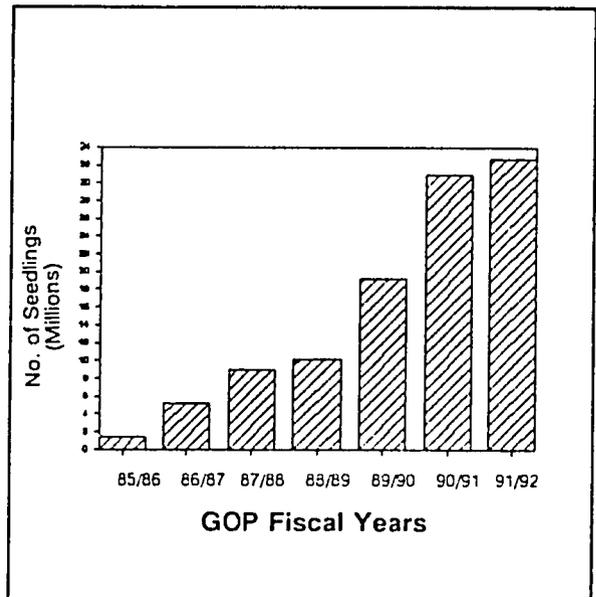
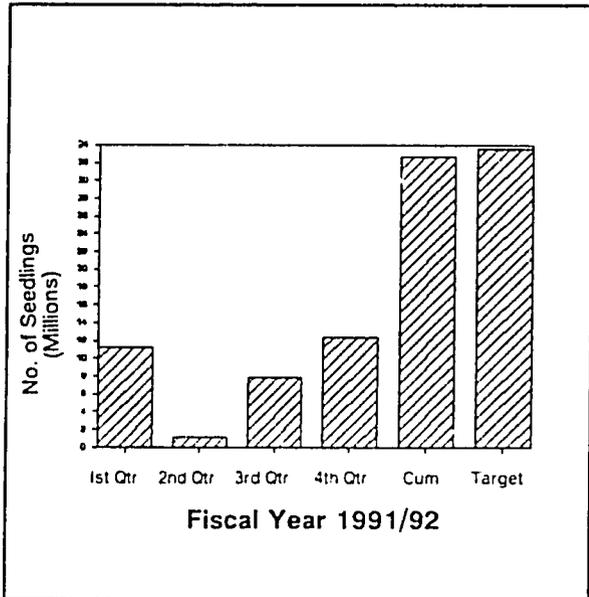


Figure 4. No. of Seedlings Raised in Farm Nurseries

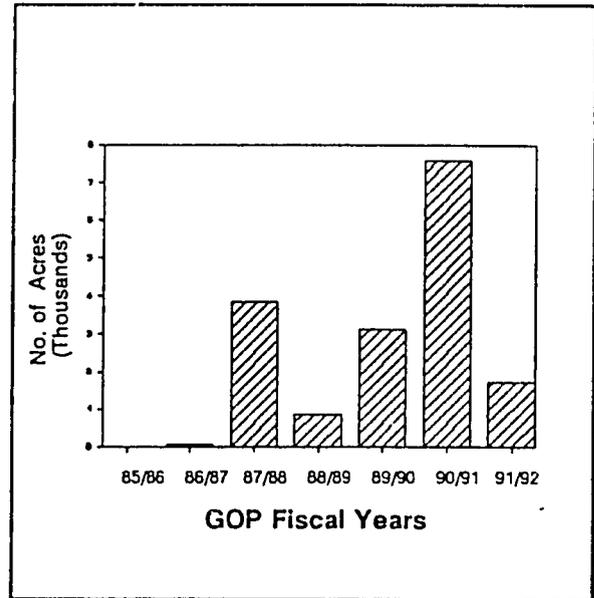
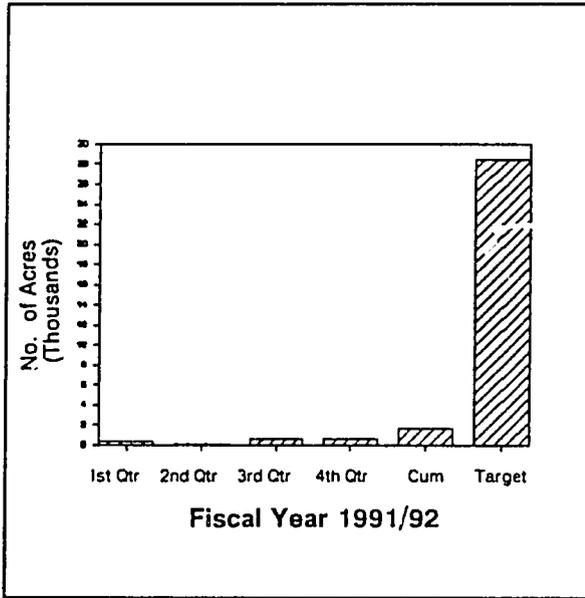


Figure 5. No. of Acres Treated under Soil Conservation and Land Development Activities

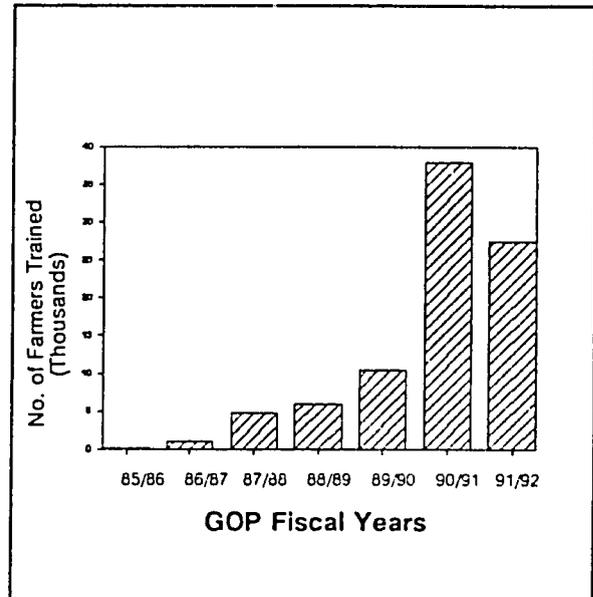
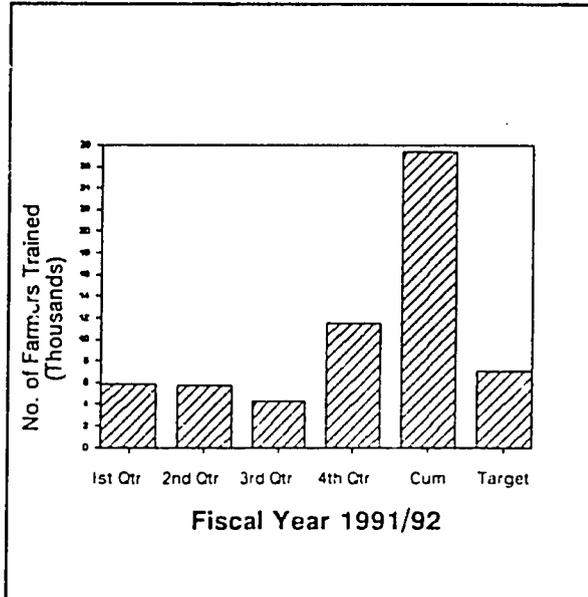


Figure 6. No. of Farmers Trained in Farm Forestry Activities

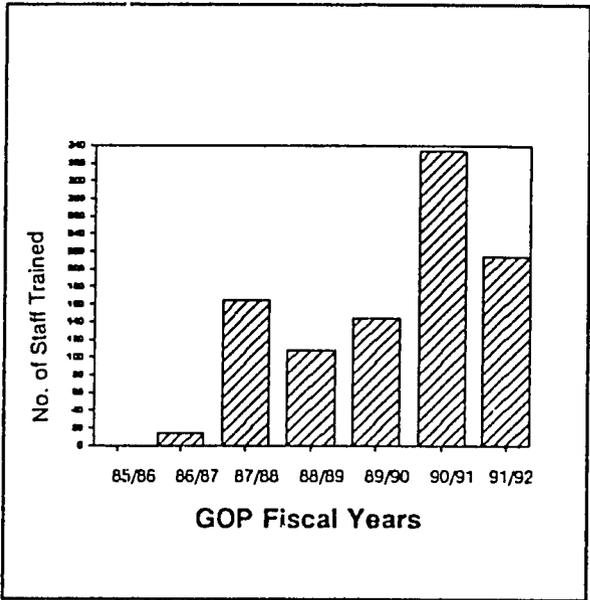
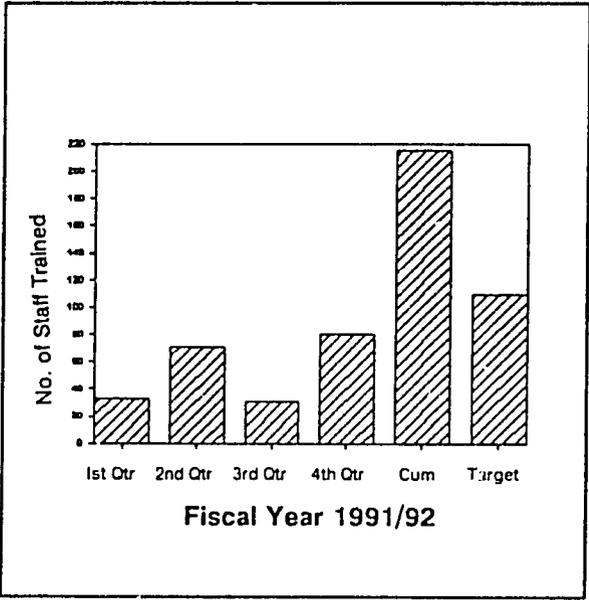
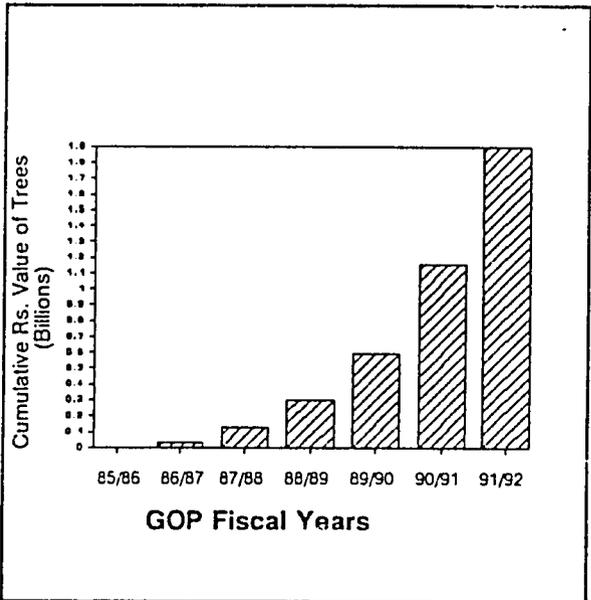
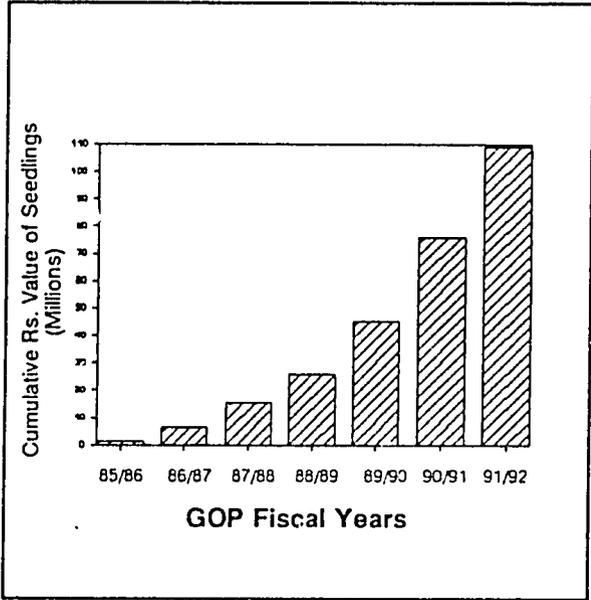


Figure 7. No. of Forest Department Staff Trained



(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. Fourth quarter's accomplishments by geographic location.

Name of Activity	4th Qtr ACHIEVE 1991-92	PUNJAB	SINDH	NWFP	BALUCH	P.F.I./ Federal	Other
1. PLANTING							
No. Farms	4215	1386		1500	1329		
No. Plants	9057196	2004099		805000	6248097		
2. NURSERY							
No. Units	468	268	2	22	175	1	
No. Plants	12428465	3909465	120000	1179000	7217000	3000	
3. LAND DEVELOPMENT							
No. Acres	586	43			543		
4. SOIL CONSERVATION							
No. Acres	25	25					
5. SINDH IRR. PLANTATION							
Ac. Afforested	1005	NA	1005	NA	NA	NA	NA
Ac. Rehabilitated	0	NA		NA	NA	NA	NA
6. RESEARCH							
No. Projects	3		3				
7. TRAINING							
A. No. of Staff Overseas							
Sh. Term	1	1					
Lg. Term	0						
Tours	0						
Local							
M.Sc	0						
B.Sc	0						
Other	49	2			12	1	34
Tours	30	8			8	6	
B. No. of Farmers							
Tree Planting	10727	9469					
Nursery Tech.	539	27		150	1108		
Land Development	90	1		50	462		
Soil Conserv.	1	1			89		
Mgmt/Mkt	0						
Motivators	32				32		
Tours	171	54		91	6		20
8. BUILDINGS							
No. Offices	0						
No. Nursery Huts	0						
No. Res/Train Labs	Nil						
No. Hostels	Nil						
No. Residences	2		2				

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

Name of Activity	PC-1 Target 1991-92	Achieve. Thru 4qtr	PUNJAB	SINDH	NWFP	BALUCH	P.F.I./ Federal/ Other
1. PLANTING							
No. Farms	26257	24689	11836		10673	2180	
No. Plants	26257000	33044501	15300207		6917100	10827194	
2. NURSERY							
No. Units	447	1060	566	4	192	295	3
No. Plants	33525000	32694660	13023560	180000	10111900	9284600	95200
3. LAND DEVELOPMENT							
No. Acres	26257	1400	627			773	
4. SOIL CONSERVATION							
No. Acres	2250	310	310				
5. SINDH IRR. PLANTAT'							
Ac. Afforested	1800	1220	NA	1220	NA	NA	NA
Ac. Rehabilitated	409	64	NA	64	NA	NA	NA
6. RESEARCH							
No. Projects	5	3		3			
7. TRAINING							
A. No. of Staff							
Overseas							
Sh.Term	15	4	1			1	2
Lg.Term	7	3		2		1	
Tours	10	3	1		1		1
Local							
M.Sc	9	1			1		
B.Sc	13	0					
Other	35	164	37	15	15	18	79
Tours	20	63	8	13	12	8	22
No. of Farmers							
Tree Planting	2875	26134	20108	2737	1184	2105	
Nursery Tech.	225	598	57		67	474	
Land Development	260	99	7			92	
Soil Conservation	225	4	4				
Mgmt/Mkt	1000	589	496	79	6		8
Motivators	50	63			18	45	
Tours	75	313	78	79	122	6	28
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	4		4			

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

Name of Activity	PC-1 Target 1991-92	Achievement in 1st Quarter	Achievement in 2nd Quarter	Achievement in 3rd Quarter	Achievement in 4th Quarter	Cumulat. Achieve. 1991-92	Cumulat. Achieve. as % of Target
1. PLANTING							
No. Farms	26257	13985	3118	3371	4215	24689	94.0%
No. Plants	26257000	14632423	4282665	5072217	9057196	33044501	125.9%
2. NURSERY							
No. Units	447	222	58	312	468	1060	237.1%
No. Plants	33525000	11188100	1143400	7934695	12428465	32694660	97.5%
3. LAND DEVELOPMENT							
No. Acres	26257	315	112	387	586	1400	5.3%
4. SOIL CONSERVATION							
No. Acres	2250		17	268	25	310	13.8%
5. SINDH IRR. PLANTATION							
Ac. Afforested	1800	130	44	41	1005	1220	67.8%
Ac. Rehabilitated	409		64			64	15.6%
6. RESEARCH							
No. Projects	5				3	3	60.0%
7. TRAINING							
A. No. of Staff							
Overseas							
Sh.Term	15	3			1	4	26.7%
Lg.Term	7	2	1			3	42.9%
Tours	10		3			3	30.0%
Local							
M.Sc	9		1			1	11.1%
B.Sc.	13					0	0.0%
Other	35	28	62	25	49	164	468.6%
Tours	20		4	29	30	63	315.0%
B. No. of Farmers							
Tree Planting	2875	5734	5564	4109	10727	26134	909.0%
Nursery Tech.	225	22	6	31	539	598	265.8%
Land Development	260	3	2	4	90	99	38.1%
Soil Conserv.	225			3	1	4	1.8%
Mgmt/Mkt	1000	75	112	402		589	58.9%
Motivators	50	18		13	32	63	126.0%
Tours	75	31	24	87	171	313	417.3%
8. BUILDINGS							
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	4	30.8%

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	1985-92 Achieved To Date	% Tar
1. PLANTING										
No. Farms	85240	112	2161	7395	12536	24851	48665	24689	120409	141
No. Plants	85240000	54554	1426219	4313595	7658702	12961302	24991741	33044501	84450614	99
2. NURSERY										
No. Units	1543	19	81	154	300	790	1378	1060	3782	245
No. Plants	115725000	1388500	5281968	9033414	10179347	19319592	30990600	32694660	108888081	94
3. LAND DEVELOPMENT										
No. Acres	9024		2	3812	813	2715	5539	1400	14281	21
4. SOIL CONSERVATION										
No. Acres	5372		50	35	35	405	2035	310	2870	53
5. SINDH IRR. PLANT.										
Mi. Canal Const	2					1	1		2	100
Ac. Afforested	3600						337	1220	1557	43
Ac. Rehabil.	1409					152	217	64	433	31
6. RESEARCH										
No. Projects	35	1		14	15	3	5	3	41	117
7. TRAINING										
A. No. of Staff										
Overseas										
Sh.Term	102		10	8	28	10	23	4	83	81
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	164	643	262
Tours	150			1	8	54	65	63	191	127
B. No. of Farmers										
Tree Planting	20125	112	1002	4792	5978	9676	36806	26134	84500	420
Nursery Tech.	770					289	215	598	1102	143
Land Dev.	690					25	55	99	179	26
Soil Conserv.	540					92	11	4	107	20
Mgmt/Mkt	1350						629	589	1218	90
Motivators	500			11	11	23	23	63	131	26
Tours	500			7	43	268	223	313	854	171
8. BUILDINGS										
No. Offices	22					2	17	3	22	100
No. Nursery Hut	15					3	9	3	15	100
No. Res/Train L	NA									
No. Hostels	1						1		1	100
No. Residences	77				2	6	12	4	24	31

PROGRESS TOWARD PROJECT GOALS AND PURPOSE

This quarter the project completes its seventh Pakistan fiscal year. The success the Project is having on getting farmers to plant trees on their private farm lands is having 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, nearly 110 million trees have been raised in over 3,760 farm nurseries and these seedlings have been planted on more than 120,400 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 more than U.S. \$76 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

- PIL No. 57 extended, at no-cost, the Forestry Planning and Development Project's PACD for a period of sixteen (16) months to December 31, 1994.
- Project Directors Quarterly Meeting was held in Karachi May 4-6, 1992. Project budget constraints and development of annual work plans were discussed in detail. A field visit to the irrigated plantation component of the project at Dharo was included.
- Annual Survey of Training report which tabulates and assesses project training activities during the period January 1 - December 31, 1991 was prepared and distributed.

- Preparation for the Annual Work Plan for 1992/93 has been initiated and a revised strategic plan and budget is under preparation for the period July 1, 1992 through December 31, 1994.

2. National Policy

- Written comments are being formally solicited on the Forestry Sector Master Plan for Pakistan draft document. The final plan is scheduled for release during the second half of 1992.

3. Training

a. Long-Term Overseas Training

- Eleven officers now are progressing towards M.Sc. degrees and two officers are progressing towards Ph.D. degrees in U.S. institutions.
- Three Educational Study Plans were prepared for M.Sc. candidates scheduled for training programs fall semester, 1992.

b. Long-Term In-Country Training

- Dr. Mark Behan taught the last 16 sessions (Feb 29 through Mar 26) of the Plant Water Relations course in the M.Sc. curriculum at Pakistan Forest Institute. Thirty (30) M.Sc. students were enrolled in the course.

Person-months: 3.6

- Dr. Mark Behan began teaching the Forest Ecology course in the M.Sc. curriculum at Pakistan Forest Institute on May 5. Thirty (30) M.Sc. students are enrolled in the 13-week course.

- Dr. Hans Zuuring began teaching the Research Methods course in the M.Sc. curriculum at Pakistan Forest Institute on June 1. Thirty (30) M.Sc. students are enrolled in the 6-week course.

- 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

- One officer completed a 5-week workshop on Agro-forestry Extension and Training (USDA TC 170-5).

Person-months: 1.1

d. In-Country Technical Training

- One Punjab forest officer and one PFI scientist completed 4 days of refresher training in the use of computer software packages.
Person-months: 0.4
- Organized and conducted a 3-day workshop on Arborist Training for 19 supervisory level foresters and horticulturists of the Capital Development Authority.
Person-months: 2.6
- Organized and conducted a 3-day workshop on Environmental Management Training for 16 officers in Development Authorities in the cities of Islamabad, Quetta, Muzaffarabad and Karachi.
Person-months: 2.2
- Organized and conducted a 1-day workshop on farm forestry for 12 Balochistan Forest Officers.
Person-months: 0.6
- Organized and conducted a 3-day study tour of farm forestry activities throughout northern Punjab for 8 NWFP forestry officers associated with the FPD Project.
Person-months: 1.1
- Organized and conducted a 1-day study tour of farm forestry activities in Punjab for the Federal Minister and 13 related federal and provincial officers.
Person-months: 0.6
- Organized and conducted a 1-day study tour of farm forestry activities in Balochistan for 6 provincial officers.
Person-months: 0.3
- Initiated preparation for two 1-week workshops on Research Methods for research officers to be held at Pakistan Forest Institute and at Punjab Forest Research Institute during July.
- Proposal to conduct a one-week conference on forest tree improvement and seed technology at Pakistan Forest Institute during the October, 1992 has been approved.

e. In-Country Farm Forestry Training

- Organized and conducted half-day workshops for 10727 farmers involved in tree planting activities in Punjab and Balochistan.
Person-months: 244.0

- Organized and conducted two-day workshops for 77 farmers involved in managing farm nurseries in Punjab and NWFP, and one-day workshops for 462 farmers in Balochistan.
Person-months: 28.0
- Organized and conducted one-day workshops for 91 farmers involved in land development and soil conservation activities in Punjab and Balochistan.
Person-months: 4.1
- Organized and conducted one-day workshops for 32 village motivators in Balochistan.
Person-months: 1.4
- Organized and conducted a 5-day tour of farm forestry activities in northern Punjab for 6 farmers and 2 Forest Officers from Balochistan.
Person-months: 1.8
- Organized and conducted a half-day tour of farm forestry outreach activities in northern Punjab for 20 village motivators from the Malakand Social Forestry Project, NWFP.
Person-months: 0.5
- Organized and conducted a 1.5-day tour of Peshawar wood-using industries and PFI farm forestry research activities for 25 farmers from D. I. Khan, NWFP.
Person-months: 1.7
- Organized and conducted a 1.5-day tour of Peshawar wood-using industries and PFI farm forestry research activities for 22 farmers from Bannu, NWFP.
Person-months: 1.5
- Organized and conducted a 1.5-day tour of Peshawar wood-using industries and PFI farm forestry research activities for 22 farmers from Karak, NWFP.
Person-months: 1.5
- Organized and conducted a 1-day tour of Peshawar wood-using industries and PFI farm forestry research activities for 22 farmers from Kohat, NWFP.
Person-months: 1.0
- Organized and conducted two separate half-day tours of wood-using industries for a total of 54 farmers from Taxila, Punjab.
Person-months: 1.2

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.

- Prepared a working paper on the organization and implementation of Federal and Provincial Tree Farmer Conventions to be held during the monsoon tree planting season for the Office of the Inspector General of Forests.
- Prepared a discussion paper on agroforestry models in use in Attock, Rawalpindi and Gujrat Districts of the Punjab for the Office of the Inspector General of Forests.
- Prepared a list of tree species suitable for planting in different Divisions (Administrative Units) of Pakistan for the Office of the Inspector General of Forests.
- Prepared a newspaper article on the use of the Project's farm grown trees to rebuild earthquake damaged homes in Karak, NWFP.
- Provided review comments to the Office of the Inspector General of Forests on six draft chapters of the Forestry Sector Master Plan.
- Provided review comments to the Pakistan Army on its Landscape Implementation Plan for Quetta and its suburbs.
- Chaired a session titled Women's Role in Agroforestry - Potential and Challenges at the National Conference on Women in the Agriculture Sector of Pakistan sponsored by the Society for International Development, United Nations Development Fund for Women and the Pakistan Agricultural Research Council in Islamabad, Pakistan on May 10-11, 1992.
- Presented a seminar on Natural Resource Management Opportunities in Pakistan at Winrock Headquarters on April 29, 1992.
- Mr. Ayaz Mehmood, SDFO Database Cell, terminated his employment with the TAT on May 15, 1992 and joined the Aga Khan Rural Support Program in Gilgit as a forestry extension officer.

- Mr. Ghulam Q. Shah, a 1991 M.Sc. graduate of PFI who was on a USAID fellowship was employed on June 15, 1992 as an SDFO in the Database Cell.

5. Research Management

- Held the 15th Executive Research Review Committee Meeting on April 30, 1992. On-going research was reviewed and actions were taken on ways to extend results throughout Project areas. Several new study plans were submitted for review.
- Approved the following study plans for research in the Sindh:

Management of Acacia nilotica with sugar cane.
Agroforestry for reclamation of saline soils.
Study on phenotypic variation in Azadirachta indica from different ecological zones.

- Reviewed a research paper on Poplar and Poplar Nurseries for the Punjab Forest Department.

B. OPERATIONAL ACTIVITIES

1. Barani/Irrigated Plantations - Balochistan, NWFP, Punjab, and Sindh
 - a. Nursery Development
 - 468 farm forestry nurseries were established and began operation in Punjab, NWFP, Balochistan, Sindh and PFI.
 - Nursery payments under PIL No. 55 totaling Rs. 1,713,019.05 were made to 41 farmers in NWFP.
 - b. Tree Planting
 - 9.1 million tree seedlings were planted by farmers in Punjab, NWFP and Balochistan.
 - c. Extension/Outreach/Recognition
 - 11,357 farmers received training in the raising and planting of tree seedlings/cuttings, and in land and soil conservation methods in Punjab, NWFP and Balochistan.
 - 32 village motivators were trained in Balochistan.
 - 171 farmers participated in study tours from the Punjab, NWFP, and Balochistan provinces and from the Malakand Social Forestry Project.

- d. Land Development and Soil Conservation
 - 611 acres of land development and soil conservation works were completed in the Punjab and Balochistan.
- e. Monitoring and Evaluation
 - Selected a consultant to assess equipment, facility and staff requirements for establishment of a GIS capability within the O/IGF.
- 2. Irrigated Plantations - Sindh
 - 1005 acres of irrigated plantation were planted or seeded.
- 3. NGO Activities
 - A USAID proposal to implement NGO activities under the Forestry Planning and Development Project through a NGO Grant Unit was approved and the Grant Unit was established.
 - Mr. Ahmed S. Bokhari was employed on June 22, 1992 as the NGO Grant Unit Manager.
 - 100 members attended the First Annual Meeting of the Pakistan Tree Farm Society.
- 4. Special Studies
 - o Use/Marketing/Economics of Farm Forestry Products
 - PFI, Peshawar demonstrated an on-farm procedure which can be used to chemically treat Eucalyptus poles by a low-pressure diffusion preservative treatment using water soluble CCB. The treatment helps prevent fungus and insect attack of the poles.
 - Completed construction of the solar dry kiln unit at PFI, Peshawar on May 5th. First trial drying schedule was initiated.
 - o Farm Forestry Field Guides
 - Technical Note No. 9 - Air Seasoning. English document was prepared, printed and distributed.
 - Complete collection of photographs to be used in the Farmers Guide to 100 Trees of Pakistan.

o Farm Forestry Communications

- Farm Forestry Newsletter, Vol. 3, Issue No. 3
English version printed and distributed.
- Wood News, Issue No. 3 (June 1992)
Published and distributed in English to 87 wood-using industries.

5. Research

- Prepared a Position Paper on a National Tree Improvement Program for Pakistan and planning materials for a National Tree Seed Technology and Tree Improvement Conference.
- Published and distributed a technical bulletin on Designing a Particleboard Panel of Desired Parameters.
- Published and distributed a teaching manual on Research Methods.
- 36 research projects and studies are currently on-going.

C. CONSTRUCTION

1. PFI

- Construction on the women's hostel is 85% complete.

2. Provincial Forest Departments

- Construction on 1 nursery hut and 1 RFO office in Punjab is underway.
- 2 residences were completed in Sindh.

3. Research and Training Facilities

- Design has begun for hostels at Ghora Gali and Abbottabad, 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 funded by USAID. The Grant Unit has been implemented and a Grant Unit Manager has been hired.

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

A PACD extension of sixteen months was granted (Revised PACD is December 31, 1994). 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 is being developed to (1) schedule activities during the extension, and (2) provide detailed estimates of the resources and funds required to accomplish life of project activities.

B. NEXT QUARTER'S ISSUES

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

Finalize a Life of Project short- and long-term implementation plan to (1) schedule activities during 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 draft plans should be discussed during the next quarter at a Project Monthly Review meetings.

PROPOSED PROJECT ACTIVITIES FOR NEXT QUARTER

A. INSTITUTIONAL AND MANPOWER DEVELOPMENT

1. Project Reporting and Coordination
 - Complete preparation of annual work plans.
2. National and Provincial Policy
 - Implementation of the National Policy for Forests, Wildlife, Watersheds and Rangelands, 1991 continues.

- Forestry Sector Master Plan is finalized.

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 M.Sc. course on Forest Ecology.
- Dr. Hans Zuuring will complete the M.Sc. course on Research Methods.

c. Short-Term Overseas

- Nominees participate in overseas workshops.

d. In-Country Technical Training

- Finalize preparation for a national workshop on Tree Seed Technology and Tree Improvement.
- Conduct workshops on research methods for federal and provincial research officers.

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

- Finalize 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 distribute seedlings for the monsoon planting season.
 - Nursery payments under PIL No. 55 are made to farmers in Punjab.
 - b. Tree Planting
 - Conduct at the federal and provincial level Tree Farmer Conventions to motivate farmers to plant trees.
 - 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
 - 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

- Initiate preparation of a technical note on Calculating Stumpage Prices of Farm Grown Materials.

- 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 completed 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 Amount</u>	<u>Jun 30,91 Cumulative Expended</u>	<u>Percent Expended</u>
1. Salaries and Wages	\$1,158,431	\$ 826,368.05	71.34
2. Fringe Benefits	305,479	195,225.34	63.91
3. Overhead	682,021	480,182.60	70.41
4. Travel, Transportation & Per Diem	700,673	389,167.98	55.54
5. Allowances	300,363	207,081.34	68.94
6. Other Direct Costs	425,696	368,132.83	86.48
7. Local Training	150,000	113,388.95	75.59
8. Commodities	400,000	392,312.17	98.08
9. Subcontracts	75,000	48,847.00	65.13
Total Expended	\$4,197,663	\$3,020,706.26	71.96

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

<u>Line Item</u>	<u>Budgeted Amount</u>	<u>30 June 92 Cumulative Expended</u>	<u>Percent Expended</u>
<u>USAID</u>			
Technical Assistance	\$ 7,500,000	\$ 6,361,598	84.82
Training	4,250,000	1,875,321	44.13
Commodities	3,400,000	1,988,417	58.48
Other Costs	11,900,000	8,852,917	74.39
Evaluation	450,000	172,026	38.23
Total Reimbursable	\$27,500,000	\$19,250,279	70.00
<u>GOP</u>			
Non-Reimbursable	Rs. 178,000,000	Rs. 65,980,943	37.07

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

TECHNICAL NOTES

Gary G. Naughton. 1992. Air Seasoning. Technical Note No. 9, (English) Forestry Planning and Development Project, 7 p.

TRAINING MATERIALS

S.M. Yasin and T.A. Qureshi. 1992. Designing a Particleboard Panel of Desired Parameters. Particleboard Technical Bulletin Series PB: TB-1. Forest Products Research Division, Pakistan Forest Institute, Peshawar, 82 p.

Hans Zuuring. 1992. Research Methods Notes. Teaching Manual. Forestry Planning and Development Project, in collaboration with the School of Forestry, University of Montana, 89 p.

NEWSLETTERS

Forestry Planning and Development Project. 1992. Wood News. (English) Issue No. 3 (June), 3 p.

PAPERS

George M. Blake. 1992. A Position Paper on a National Tree Improvement Program for Pakistan. Prepared for the Forestry Planning and Development Project, Winrock International, 5 p. plus appendices.

CONSULTANCY REPORTS

S.B. Land, Jr. and W.T. Gladstone. 1992. Remarks for a National Plan of Action on Tree Improvement as part of a Pakistan National Tree Seed Technology and Improvement Conference. Consultant Report, Winrock International, 22 p.

Charles E. Long and Houchang Khatamian. 1992. Arborist Training and Urban Environmental Management. Consultant Report, Winrock International, 11 p.

ATTACHMENT D. PROJECT PUBLICATIONS PRODUCED DURING PAKISTAN
FISCAL YEAR 1991/1992.

PUBLISHED ARTICLES

- Gary G. Naughton. 1991. TREES: Breaking the poverty cycle in Pakistan. SEEDS, May 1991, p. 2.
- Winrock Staff. 1991. Tree farmers motivate their Pakistani neighbors. In Winrock International Institute for Agricultural Development, 1991. Development: The Changing Landscape Winrock International Annual Report 1990. p. 6.
- S. Rashid Ali. 1991. Pakistan Emphasizes Afforestation Work. World Wood 32(6):11-12.

TECHNICAL NOTES

- Raja Zarif and Gary G. Naughton. 1991. Marketing Farm Forestry Products. Technical Note No. 1, (Urdu) Forestry Planning and Development Project, 7 p.
- M.I. Sheikh. 1991. Raising of Nurseries. Technical Note No. 5, (English and Urdu) Forestry Planning and Development Project, 12 p.
- M.I. Sheikh. 1991. Seed Collection. Technical Note No. 6, (English and Urdu) Forestry Planning and Development Project, 12 p.
- Gary G. Naughton and Charles R. Hatch. 1991. Thinning Block Plantations. Technical Note No. 7, (English and 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 and Urdu) Forestry Planning and Development Project, 9 p.
- Gary G. Naughton. 1992. Air Seasoning. Technical Note No. 9, (English and Urdu) Forestry Planning and Development Project, 7 p.

TREE FARMERS GUIDES

- Gary G. Naughton. 1991. Marketing Farm Grown Timber. Tree Farmers Guide No. 1, (English and Urdu), Forestry Planning and Development Project, 4 p.

TRAINING MATERIALS

- F.T. Bonner, J.A. Vozzo, W.W. Elam and S.B. Land, Jr. 1991. Workshop Manual for Tree Seed Technology Training Course. Note Taking Outline and Materials. USDA Forest Service and Mississippi State University, 164 p.
- Jo Ellen Force and Deborah Forester. 1991. Workshop Manual for Land Use Planning Methodologies in Social Forestry. Selected Readings and Materials. Department of Forest Resources, University of Idaho, 192 p.
- 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.
- S.M. Yasin and T.A. Qureshi. 1992. Designing a Particleboard Panel of Desired Parameters. Particleboard Technical Bulletin Series PB: TB-1. Forest Products Research Division, Pakistan Forest Institute, Peshawar, 82 p.
- Hans Zuuring. 1992. Research Methods Notes. Teaching Manual. Forestry Planning and Development Project, in collaboration with the School of Forestry, University of Montana, 89 p.

RESEARCH REPORTS

- M.I. Sheikh, Mian Mustafa and Charles R. Hatch. 1991. The Effects of Three Different Sized Polythene Tubes on Eucalyptus camaldulensis Seedling Development. Research Report No. 2, Forestry Planning and Development Project, 4 p.
- 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. Computer Alert. (English) No. 16, 1 p.
- Forestry Planning and Development Project. 1991. Farm Forestry Newsletter. (English and Urdu), Vol 3, Issue 2, 8 p.
- Forestry Planning and Development Project. 1991. Farm Forestry Newsletter. (English and Urdu) Vol 3, Issue 3, 8 p.

NEWSLETTERS-Continued

Forestry Planning and Development Project. 1991. Wood News. (English) Issue No. 2 (August), 3 p.

Forestry Planning and Development Project. 1992. Wood News. (English) Issue No. 3 (June), 3 p.

UNNUMBERED REPORTS

Technical Assistance Team. 1991 & 1992. Quarter Project Reports. Forestry Planning and Development Project.

Technical Assistance Team. 1991 & 1992. Trip Reports. Forestry Planning and Development Project.

Technical Assistance Team. 1990. FY 92 Annual Work Plan. Forestry Planning and Development Project, 28 p.

Technical Assistance Team. 1992. Annual Survey of Training Report, 1 January - 31 December 1991. Forestry Planning and Development Project, 14 p.

PAPERS

Nighat Mansoor Chughtai. 1991. WID Activities in the Forestry Planning and Development Project. Workshop paper on Planning and Extension with Women in Forestry/Development, Gilgit, 4 p.

Abeed Ullah Jan. 1991. Review and analysis of forest policies of Pakistan. Paper prepared for the Forestry Planning and Development Project, 139 p.

Rafiq Ahmad and Abdul Hafeez Qaisar. 1991. Country Report on Pakistan. Paper presented at the Policy Workshop on Investment Priority for Watershed Management in National Periodic Plans. Beijing, China, 11-15 June 1991, 43 p.

Abeed Ullah Jan. 1991. Forest Policy Administration and Management in Pakistan. Paper prepared for the Forestry Planning and Development Project, 187 p.

Bashir Ahmed Wani and Rashid Mahmood Randhawa. 1991. Country Status Report on Local Organizations in Community Forestry Extension in Pakistan. Paper presented at the Regional Expert Consultation. Chiang Mai, Thailand, 7-12 October 1991, 21 p.

Rafiq Ahmad. 1991. Country Status Report on Regional Wood Energy Development Programme in Asia. Paper presented at the Project Advisory Committee Meeting. Colombo, Sri Lanka, 5-8 November 1991, 29 p.

PAPERS-Continued

- M.I. Sheikh. 1992. Desertification and Appropriate Technologies in the Management of Arid Lands. Paper prepared for Pakistan National Commission for UNESCO, 11 p.
- George M. Blake. 1992. A Position Paper on a National Tree Improvement Program for Pakistan. Prepared for the Forestry Planning and Development Project, Winrock International, 5 p. plus appendices.

CONSULTANCY REPORTS

- Douglas P. Richards. 1991. A plan of work for technical training in tree improvement, tree seed technology and nursery technology. Consultant Report, Winrock International, 25 p. plus appendices.
- M. Stevens, A. Hammett, D. Minnick, B. Mitchie and K.G. Yasin. 1991. Forestry Planning and Development Project Midterm Evaluation. Consultant Report, Tropical Research & Development, Inc., 172 p.
- Frank Bonner and John A. Vozzo. 1991. Training Report for the Workshop on Forest Seed Technology. Consultant Report, Winrock International, 10 p. plus appendices.
- Jo Ellen Force and Deborah Forester. 1991. Training Report for the Workshop on Land Use Planning Methodologies in Social Forestry. Consultant Report, Winrock International, 9 p. plus appendices.
- 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.
- S.B. Land, Jr. and W.T. Gladstone. 1992. Remarks for a National Plan of Action on Tree Improvement as part of a Pakistan National Tree Seed Technology and Improvement Conference. Consultant Report, Winrock International, 22 p.
- Charles E. Long and Houchang Khatamian. 1992. Arborist Training and Urban Environmental Management. Consultant Report, Winrock International, 11 p.