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# FORESTRY PLANNING & DEVELOPMENT PROJECT

## Government of Pakistan-USAID

3 February 1993

TO: Kh. Hameedullah  
Project Officer

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

SUB: Quarterly Report for Period 1 October - 31 December, 1992

Attached is the Quarterly Report for the second quarter of Pakistan FY 92/93 covering the period 1 October - 31 December, 1992. Graphs and tables in this report also summarize FY 92/93 achievements as well as life of project achievements.

### Distribution:

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

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

**QUARTERLY PROGRESS REPORT**

**1 October - 31 December, 1992**

**ISLAMABAD, PAKISTAN  
January 31, 1993**

# 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 2nd Quarter of Fiscal Year 1992/93

1 October - 31 December 1992

## SUMMARY

The following charts give a visual summary of project activities for the 2nd 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 2nd quarter and cumulative for Pakistan fiscal year 1992-1993, and cumulative for life of project. Included in the tabular summary is:

Table 1. Second 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 2nd quarter of fiscal year 1992/93.

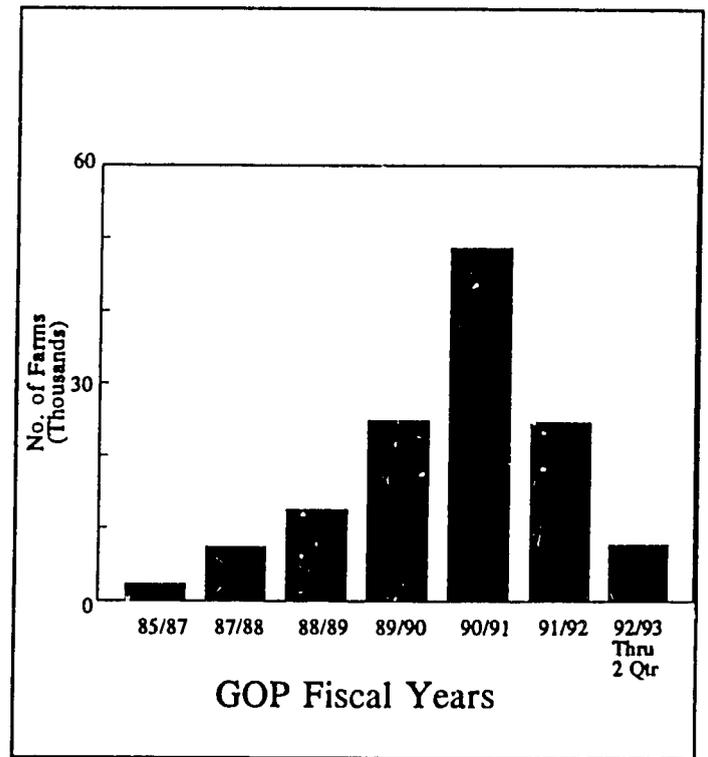
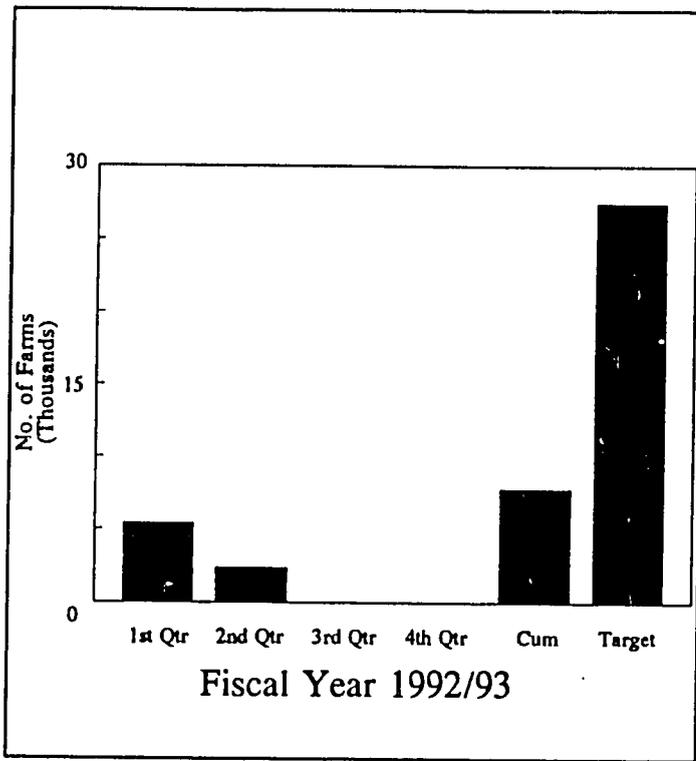


Figure 1. No. of Farm Households Participating in Farm Forestry

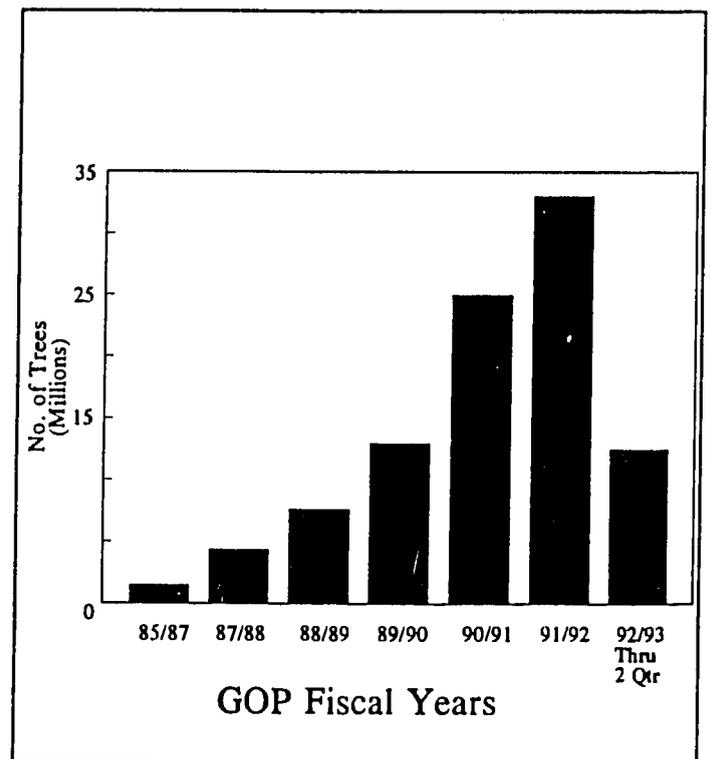
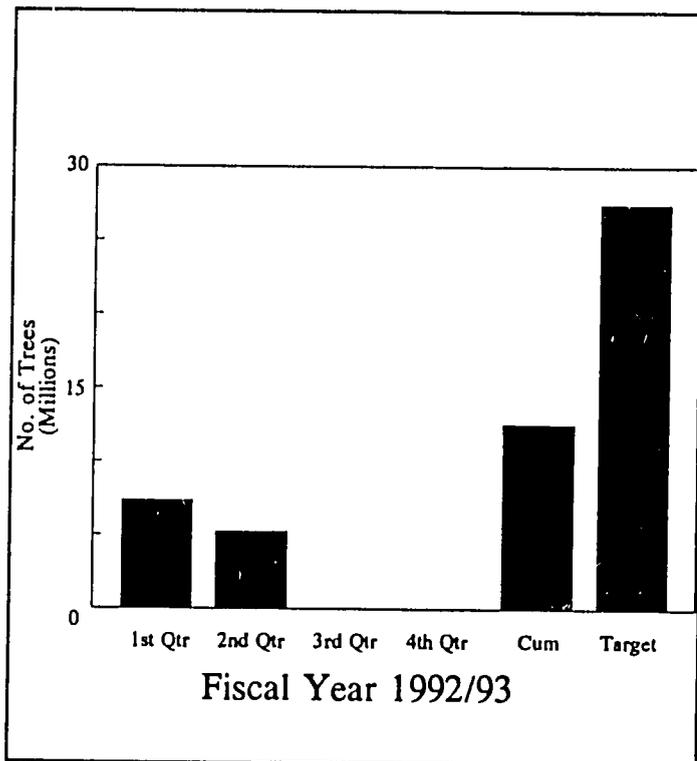


Figure 2. No. of Trees Planted on Farms

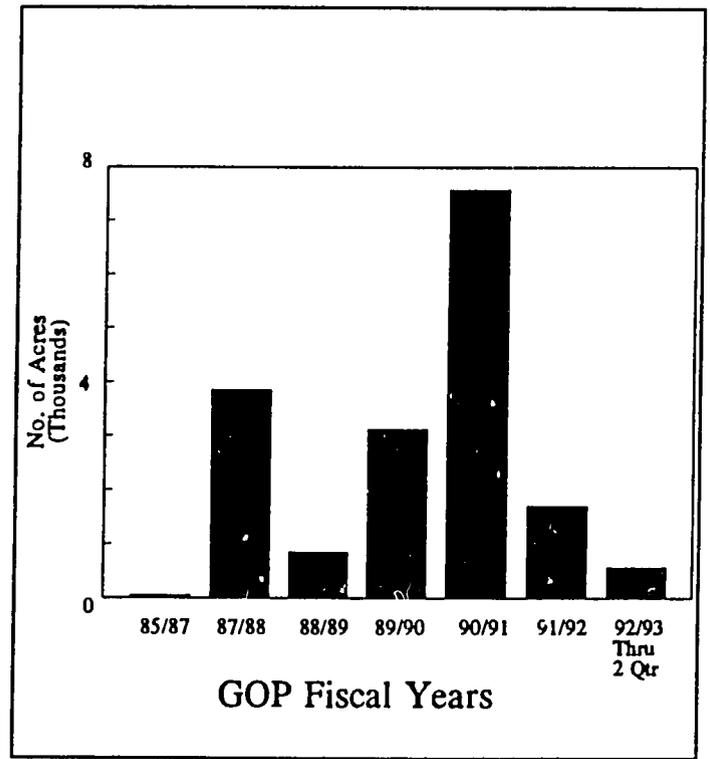
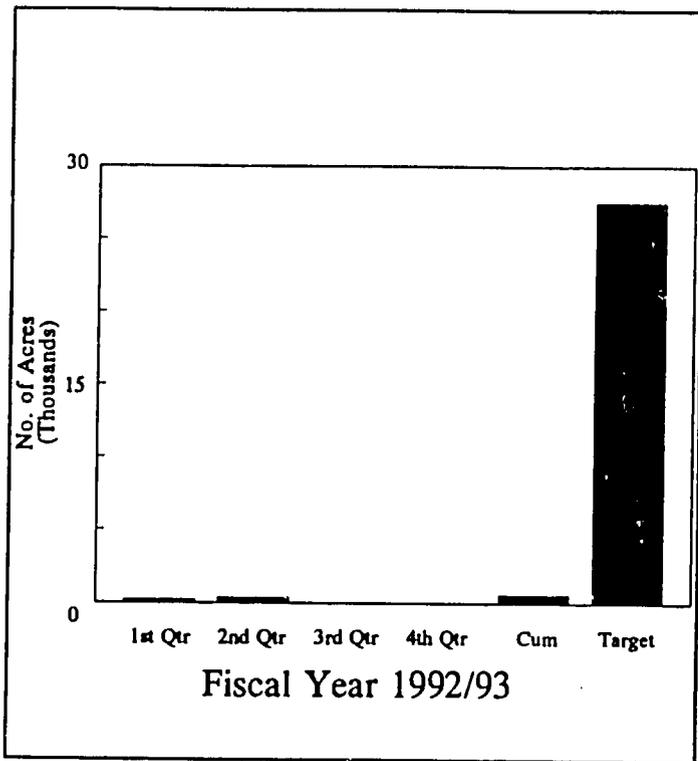


Figure 5. No. of Acres Treated under Soil Conservation and Land Development Activities

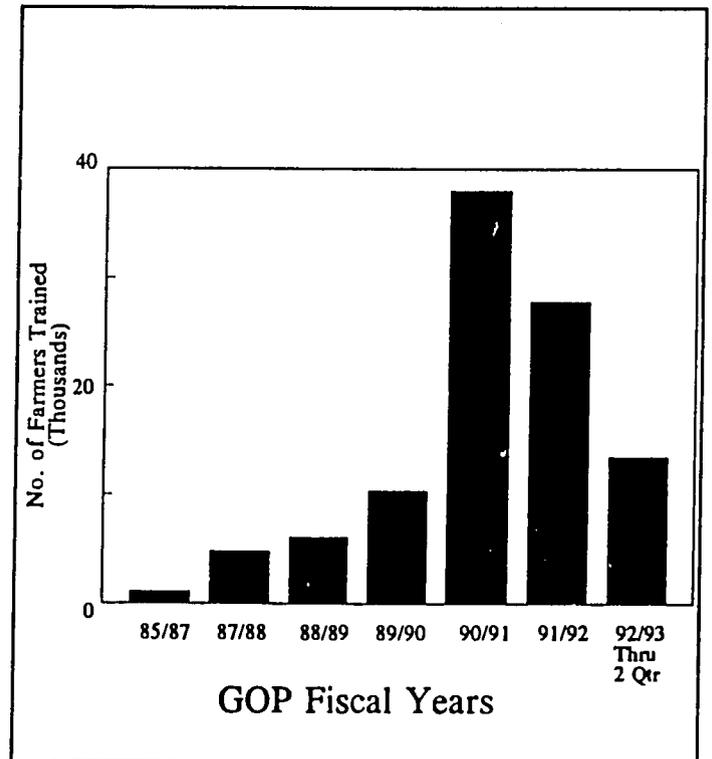
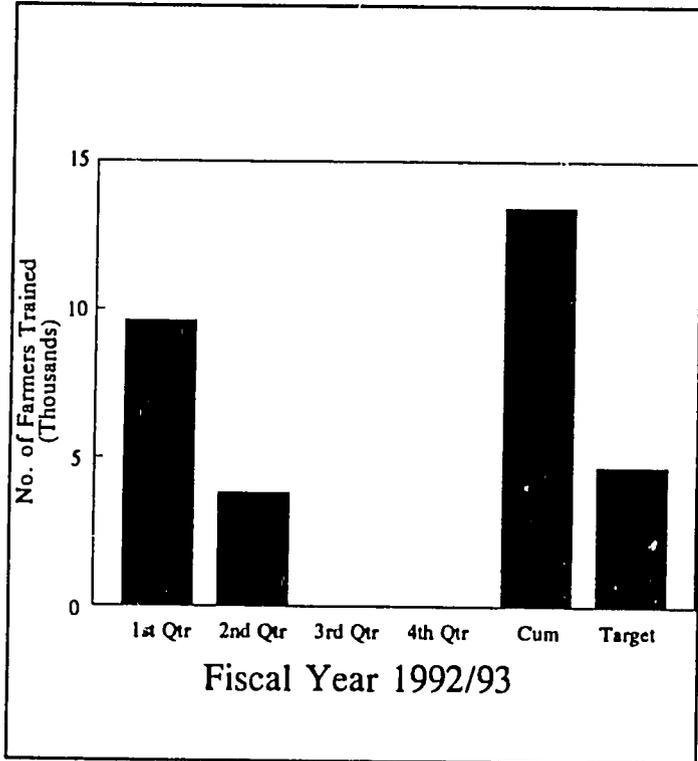


Figure 6. No. of Farmers Trained in Farm Forestry Activities

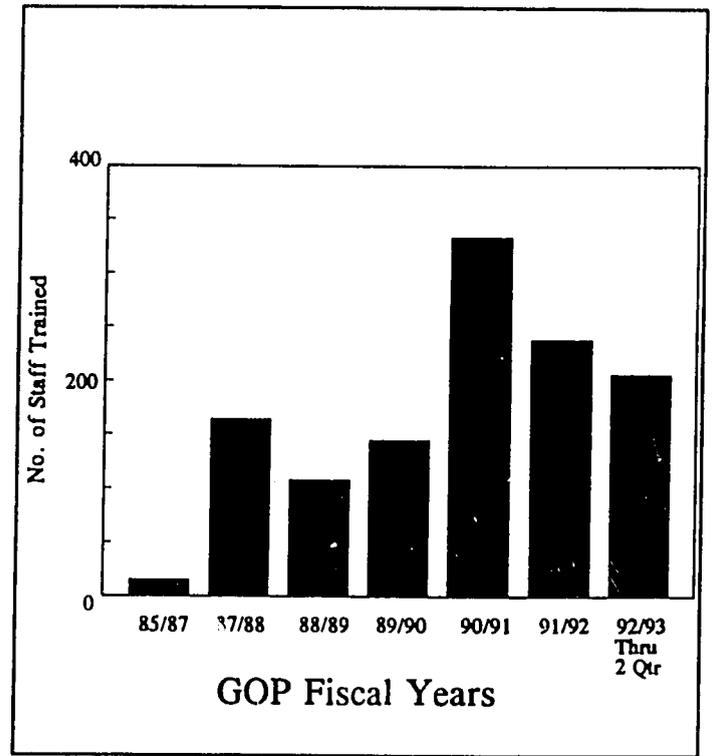
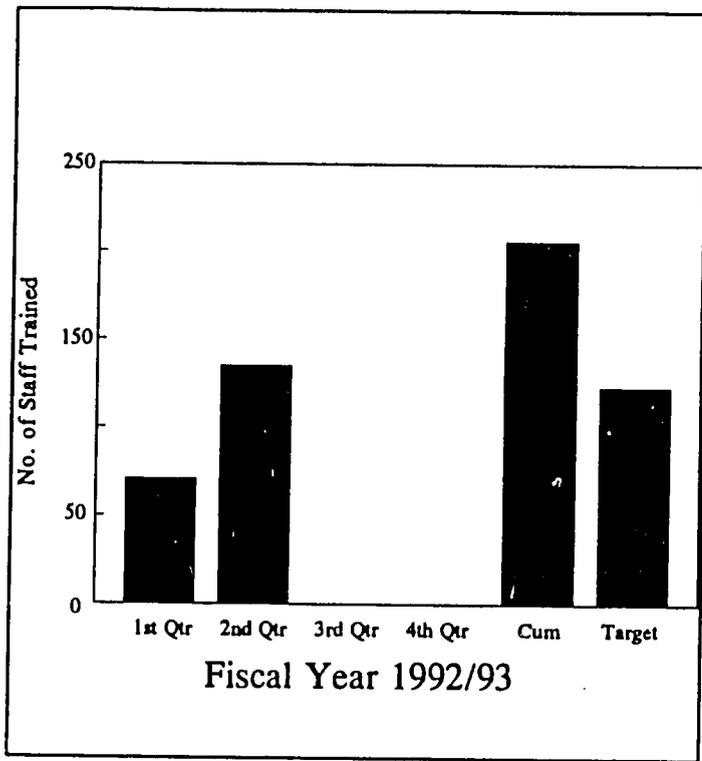
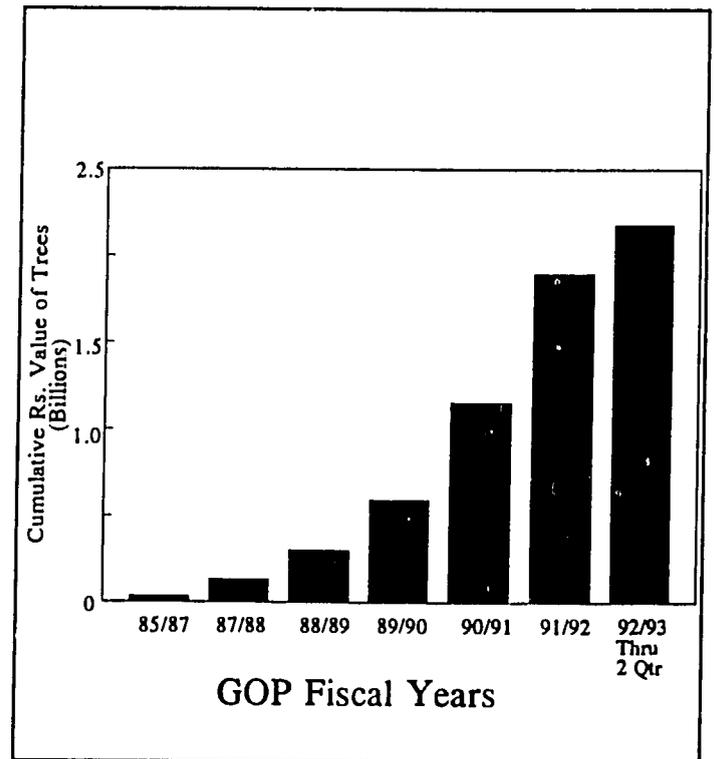
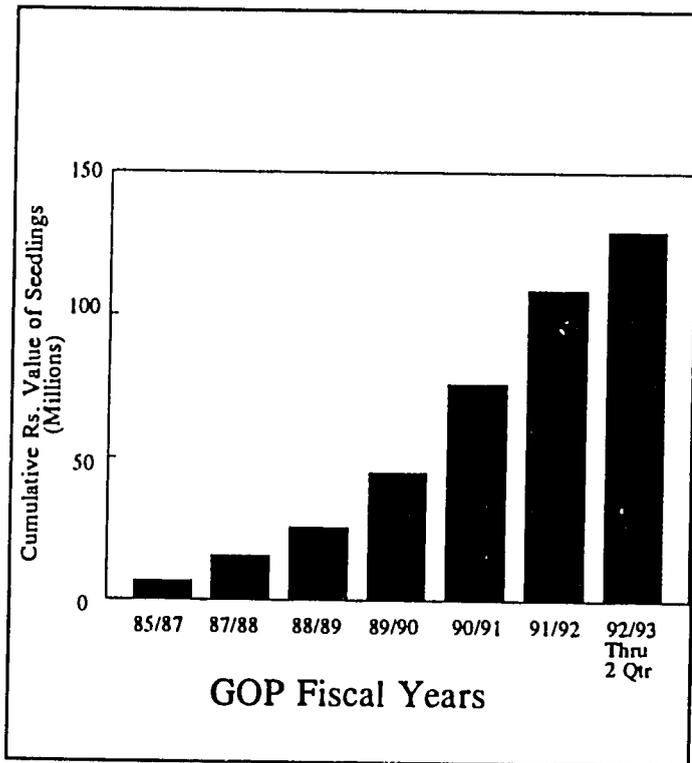


Figure 7. No. of Forest Department Staff Trained



(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. Second quarter's accomplishments by geographic location.**

| Name of Activity                | 2nd Qtr<br>ACHIEVE<br>1992-93 | PUNJAB    | SINDH  | NWFP      | BALUCHI   | P.F.I./<br>Federal | Other |
|---------------------------------|-------------------------------|-----------|--------|-----------|-----------|--------------------|-------|
| <b>1. PLANTING</b>              |                               |           |        |           |           |                    |       |
| No. Farms                       | 2,339                         | 1,231     |        | 368       | 740       |                    |       |
| No. Plants                      | 5,188,337                     | 1,922,337 |        | 471,000   | 2,795,000 |                    |       |
| <b>2. NURSERY</b>               |                               |           |        |           |           |                    |       |
| No. Units                       | 614                           | 199       |        | 35        | 380       |                    |       |
| No. Plants                      | 15,231,000                    | 5,448,000 | 99,000 | 2,084,000 | 7,600,000 |                    |       |
| <b>3. LAND DEVELOPMENT</b>      |                               |           |        |           |           |                    |       |
| No. Acres                       | 169                           | 148       |        | 21        |           |                    |       |
| <b>4. SOIL CONSERVATION</b>     |                               |           |        |           |           |                    |       |
| No. Acres                       | 168                           | 3         |        |           | 165       |                    |       |
| <b>5. SINDH IRR. PLANTATION</b> |                               |           |        |           |           |                    |       |
| Ac. Afforested                  | 300                           | NA        | 300    | NA        | NA        | NA                 | NA    |
| Ac. Rehabilitated               | 0                             | NA        |        | NA        | NA        | NA                 | NA    |
| <b>6. RESEARCH</b>              |                               |           |        |           |           |                    |       |
| No. Projects                    | 5                             |           |        |           |           | 5                  |       |
| <b>7. TRAINING</b>              |                               |           |        |           |           |                    |       |
| A. No. of Staff                 |                               |           |        |           |           |                    |       |
| Overseas                        |                               |           |        |           |           |                    |       |
| Sh. Term                        | 4                             | 2         |        | 1         |           | 1                  |       |
| Lg. Term                        | 1                             |           |        |           |           | 1                  |       |
| Tours                           | 2                             | 1         |        |           |           | 1                  |       |
| Local                           |                               |           |        |           |           |                    |       |
| M.Sc                            | 20                            | 13        | 3      | 3         | 1         |                    |       |
| B.Sc                            | 19                            | 11        | 2      | 5         | 1         |                    |       |
| Other                           | 70                            | 14        | 5      | 3         |           | 25                 | 23    |
| Tours                           | 19                            | 19        |        |           |           |                    |       |
| B. No. of Farmers               |                               |           |        |           |           |                    |       |
| Tree Planting                   | 2,795                         | 1,231     |        |           |           |                    |       |
| Nursery Tech.                   | 719                           | 199       |        | 24        | 1,540     |                    |       |
| Land Development                | 87                            | 6         |        | 1         | 520       |                    |       |
| Soil Conserv.                   | 11                            | 1         |        |           | 80        |                    |       |
| Mgmt/Mkt                        | 90                            | 90        |        |           | 10        |                    |       |
| Motivators                      | 13                            |           |        | 1         | 12        |                    |       |
| Tours                           | 110                           |           |        |           | 110       |                    |       |
| <b>8. BUILDINGS</b>             |                               |           |        |           |           |                    |       |
| No. Offices                     | 1                             | 1         |        |           |           |                    |       |
| No. Nursery Huts                | 2                             | 2         |        |           |           |                    |       |
| No. Res/Train Labs              | Nil                           |           |        |           |           |                    |       |
| No. Hostels                     | 1                             |           |        |           |           | 1                  |       |
| No. Residences                  | 0                             |           |        |           |           |                    |       |

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

| Name of Activity                | PC-1<br>Target<br>1992-93 | Achieve.<br>Thru 2qtr | PUNJAB  | SINDH   | NWFP    | BALUCH  | P.F.I./<br>Federal/ | Other |
|---------------------------------|---------------------------|-----------------------|---------|---------|---------|---------|---------------------|-------|
| <b>1. PLANTING</b>              |                           |                       |         |         |         |         |                     |       |
| No. Farms                       | 27469                     | 7762                  | 5001    | 18      | 2003    | 740     |                     |       |
| No. Plants                      | 27469000                  | 12529932              | 7934932 | 293000  | 1507000 | 2795000 |                     |       |
| <b>2. NURSERY</b>               |                           |                       |         |         |         |         |                     |       |
| No. Units                       | 480                       | 808                   | 271     | 50      | 106     | 380     | 1                   |       |
| No. Plants                      | 36000000                  | 20745600              | 8323600 | 1349000 | 3425000 | 7600000 | 48000               |       |
| <b>3. LAND DEVELOPMENT</b>      |                           |                       |         |         |         |         |                     |       |
| No. Acres                       | 25260                     | 373                   | 317     |         | 56      |         |                     |       |
| <b>4. SOIL CONSERVATION</b>     |                           |                       |         |         |         |         |                     |       |
| No. Acres                       | 2228                      | 200                   | 35      |         |         | 165     |                     |       |
| <b>5. SINDH IRR. PLANTATION</b> |                           |                       |         |         |         |         |                     |       |
| Ac. Afforested                  | 1800                      | 300                   | NA      | 300     | NA      | NA      | NA                  | NA    |
| Ac. Rehabilitated               | 409                       | 0                     | NA      |         | NA      | NA      | NA                  | NA    |
| <b>6. RESEARCH</b>              |                           |                       |         |         |         |         |                     |       |
| No. Projects                    | 5                         | 6                     |         |         |         |         | 6                   |       |
| <b>7. TRAINING</b>              |                           |                       |         |         |         |         |                     |       |
| A. No. of Staff                 |                           |                       |         |         |         |         |                     |       |
| Overseas                        |                           |                       |         |         |         |         |                     |       |
| Sh.Term                         | 15                        | 13                    | 4       |         | 3       | 1       | 5                   |       |
| Lg.Term                         | 4                         | 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                        | 128                   | 34      | 6       | 4       | 1       | 55                  | 28    |
| Tours                           | 20                        | 23                    | 19      |         |         |         | 4                   |       |
| No. of Farmers                  |                           |                       |         |         |         |         |                     |       |
| Tree Planting                   | 2875                      | 12276                 | 10602   | 100     | 34      | 1540    |                     |       |
| Nursery Tech.                   | 225                       | 783                   | 206     | 50      | 7       | 520     |                     |       |
| Land Development                | 260                       | 90                    | 8       |         | 2       | 80      |                     |       |
| Soil Conservation               | 225                       | 14                    | 4       |         |         | 10      |                     |       |
| Mgmt/Mkt                        | 1000                      | 145                   | 120     | 25      |         |         |                     |       |
| Motivators                      | 50                        | 18                    |         |         | 6       | 12      |                     |       |
| Tours                           | 75                        | 123                   |         |         | 13      | 110     |                     |       |
| <b>8. Buildings</b>             |                           |                       |         |         |         |         |                     |       |
| 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<br>Target<br>1992-93 | Achieve-<br>ment<br>in 1st<br>Quarter | Achieve-<br>ment<br>in 2nd<br>Quarter | Achieve-<br>ment<br>in 3rd<br>Quarter | Achieve-<br>ment<br>in 4th<br>Quarter | Cumulat.<br>Achieve.<br>1992-93 | Cumulat.<br>Achieve.<br>as % of<br>Target |
|---------------------------------|---------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------|---|
| <b>1. PLANTING</b>              |                           |                                       |                                       |                                       |                                       |                                 |   |
| No. Farms                       | 27469                     | 5423                                  | 2339                                  |                                       |                                       | 7762                            | 28.3%                                     |
| No. Plants                      | 27469000                  | 7341595                               | 5188337                               |                                       |                                       | 12529932                        | 45.6%                                     |
| <b>2. NURSERY</b>               |                           |                                       |                                       |                                       |                                       |                                 |   |
| No. Units                       | 480                       | 194                                   | 614                                   |                                       |                                       | 808                             | 168.3%                                    |
| No. Plants                      | 36000000                  | 5514600                               | 15231000                              |                                       |                                       | 20745600                        | 57.6%                                     |
| <b>3. LAND DEVELOPMENT</b>      |                           |                                       |                                       |                                       |                                       |                                 |   |
| No. Acres                       | 25260                     | 204                                   | 169                                   |                                       |                                       | 373                             | 1.5%                                      |
| <b>4. SOIL CONSERVATION</b>     |                           |                                       |                                       |                                       |                                       |                                 |   |
| No. Acres                       | 2228                      | 32                                    | 168                                   |                                       |                                       | 200                             | 9.0%                                      |
| <b>5. SINDH IRR. PLANTATION</b> |                           |                                       |                                       |                                       |                                       |                                 |   |
| Ac. Afforested                  | 1800                      |                                       | 300                                   |                                       |                                       | 300                             | 16.7%                                     |
| Ac. Rehabilitated               | 409                       |                                       |                                       |                                       |                                       | 0                               | 0.0%                                      |
| <b>6. RESEARCH</b>              |                           |                                       |                                       |                                       |                                       |                                 |   |
| No. Projects                    | 5                         | 1                                     | 5                                     |                                       |                                       | 6                               | 120.0%                                    |
| <b>7. TRAINING</b>              |                           |                                       |                                       |                                       |                                       |                                 |   |
| A. No. of Staff Overseas        |                           |                                       |                                       |                                       |                                       |                                 |   |
| Sh.Term                         | 15                        | 9                                     | 4                                     |                                       |                                       | 13                              | 86.7%                                     |
| Lg.Term                         | 4                         |                                       | 1                                     |                                       |                                       | 1                               | 25.0%                                     |
| 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                                    |                                       |                                       | 128                             | 365.7%                                    |
| Tours                           | 20                        | 4                                     | 19                                    |                                       |                                       | 23                              | 115.0%                                    |
| B. No. of Farmers               |                           |                                       |                                       |                                       |                                       |                                 |   |
| Tree Planting                   | 2875                      | 9481                                  | 2795                                  |                                       |                                       | 12276                           | 427.0%                                    |
| Nursery Tech.                   | 225                       | 64                                    | 719                                   |                                       |                                       | 783                             | 348.0%                                    |
| Land Development                | 260                       | 3                                     | 87                                    |                                       |                                       | 90                              | 34.6%                                     |
| Soil Conserv.                   | 225                       | 3                                     | 11                                    |                                       |                                       | 14                              | 6.2%                                      |
| Mgmt/Mkt                        | 1000                      | 55                                    | 90                                    |                                       |                                       | 145                             | 14.5%                                     |
| Motivators                      | 50                        | 5                                     | 13                                    |                                       |                                       | 18                              | 36.0%                                     |
| Tours                           | 75                        | 13                                    | 110                                   |                                       |                                       | 123                             | 164.0%                                    |
| <b>8. BUILDINGS</b>             |                           |                                       |                                       |                                       |                                       |                                 |   |
| 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<br>PC-1<br>Target | 1985-93<br>PC-1<br>Target | 1985/87<br>Achieved | 1987/88<br>Achieved | 1988/89<br>Achieved | 1989/90<br>Achieved | 1990/91<br>Achieved | 1991/92<br>Achieved | 1992/93<br>Achieved<br>Thru 2qtr | 1985-93<br>Achieved<br>To Date | %<br>Tar |
|--------------------------|-----------------------|---------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|----------------------------------|--------------------------------|----------|
| 1. PLANTING              |                       |                           |                     |                     |                     |                     |                     |                     |                                  |                                |          |
| No. Farms                | 105500                | 93100                     | 2273                | 7395                | 12536               | 24851               | 48665               | 24689               | 7762                             | 128171                         | 138      |
| No. Plants               | 133725000             | 111720000                 | 1480773             | 4313595             | 7658702             | 12961302            | 24991741            | 33044501            | 12529932                         | 96980546                       | 87       |
| 2. NURSERY               |                       |                           |                     |                     |                     |                     |                     |                     |                                  |                                |          |
| No. Units                | 1783                  | 1501                      | 100                 | 154                 | 300                 | 790                 | 1378                | 1060                | 808                              | 4590                           | 306      |
| No. Plants               | 133725000             | 112575000                 | 6670468             | 9033414             | 10179347            | 19319592            | 30990600            | 32694660            | 20745600                         | 129633681                      | 115      |
| 3. LAND DEVELOPMENT      |                       |                           |                     |                     |                     |                     |                     |                     |                                  |                                |          |
| No. Acres                | 99284                 | 83600                     | 2                   | 3812                | 813                 | 2715                | 5539                | 1400                | 373                              | 14654                          | 18       |
| 4. SOIL CONSERVATION     |                       |                           |                     |                     |                     |                     |                     |                     |                                  |                                |          |
| No. Acres                | 7600                  | 6400                      | 50                  | 35                  | 35                  | 405                 | 2035                | 310                 | 200                              | 3070                           | 48       |
| 5. SINDH IRR. PLANT.     |                       |                           |                     |                     |                     |                     |                     |                     |                                  |                                |          |
| Mi. Canal Const          | 2                     | 2                         |                     |                     |                     | 1                   | 1                   |                     |                                  | 2                              | 100      |
| Ac. Afforested           | 5400                  | 4547                      |                     |                     |                     |                     | 337                 | 1220                | 300                              | 1857                           | 41       |
| 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                   | 1                                | 12                             | 35       |
| 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                 | 128                              | 771                            | 327      |
| 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               | 12276                            | 96776                          | 500      |
| Nursery Tech.            | 1780                  | 1500                      |                     |                     |                     | 289                 | 215                 | 598                 | 783                              | 1885                           | 126      |
| Land Dev.                | 990                   | 840                       |                     |                     |                     | 25                  | 55                  | 99                  | 90                               | 269                            | 32       |
| Soil Conserv.            | 760                   | 640                       |                     |                     |                     | 92                  | 11                  | 4                   | 14                               | 121                            | 19       |
| Mgmt/Mkt                 | 2500                  | 2000                      |                     |                     |                     |                     | 629                 | 589                 | 145                              | 1363                           | 68       |
| Motivators               | 600                   | 550                       |                     | 11                  | 11                  | 23                  | 23                  | 63                  | 18                               | 149                            | 27       |
| 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<br>Rooms | 4 (6)<br>5 (10)       | Nil<br>Nil                |                     |                     |                     |                     |                     |                     |                                  |                                |          |

1/ PC-1 Targets (USAID Commitment)

## PROGRESS TOWARD PROJECT GOALS AND PURPOSE

This quarter ends the first 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, nearly 130 million trees have been raised on over 4,500 farm nurseries and these seedlings have been planted on more than 128,000 farms. At maturity (age 7), these trees will provide approximately 7.2 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. \$166 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 has been submitted to the Federal Advisory Committee for approval.

#### 2. National Policy

- Review comments on the Forestry Sector Master Plan for Pakistan were incorporated into the document and the final plan is scheduled for release in early 1993.

- Two officers completed a 4-week Forest Management tour conducted by the University of Michigan.  
Person-months: 1.9
- d. In-Country Technical Training
- Organized and conducted a 6-day national workshop on Tree Seed Technology for 31 forest officers from the Punjab (8), NWFP (3), Sindh (5), Azad Jammu and Kashmir (6) and PFI (9).  
Person-months: 8.5
  - Organized and conducted a 1-day workshop on Eucalyptus sawlog marketing for 6 Punjab forest officers.  
Person-months: 0.3
  - Organized and conducted a 3-day workshop on the use of Raakim Urdu software for 8 staff officers in the O/IGF and at PFI.  
Person-months: 1.1
  - Organized and conducted a 4-day workshop on the use of PageMaker software for 5 officers at PFI.  
Person-months: 0.9
  - Organized and conducted a 2-day workshop on the use of a plant moisture stress apparatus for 2 research officers at PFI.  
Person-months: 0.2
  - Organized and conducted a 1-day workshop on the use of an atomic absorption unit for 1 research officer at PFI.  
Person-months: 0.1
  - Organized and conducted a 3-day workshop on the management and operation of private farm nurseries for 17 officers of NGOs in Punjab.  
Person-months: 2.3
  - Organized and conducted a 5-day interprovincial study tour of farm forestry activities in NWFP for 17 Punjab forest officers.  
Person-months: 3.9
  - Two forest officers participated in a 2-week study tour in Pakistan on Participatory Forestry and Tree Plantation Approaches organized by FAO and AKRSP.  
Person-months: 0.9
- e. In-Country Farm Forestry Training
- Organized and conducted half-day workshops for 2,795 farmers involved in tree planting activities in Punjab, NWFP and Balochistan.  
Person-months: 63.5

- Organized and conducted one-day workshops for 719 farmers involved in managing farm nurseries in Punjab, NWFP and Balochistan.  
Person-months: 32.7
- Organized and conducted one-day workshops for 98 farmers involved in land development and soil conservation activities in Punjab, NWFP and Balochistan.  
Person-months: 4.4
- Organized and conducted a half-day workshop for 40 farmers on the marketing of Eucalyptus from farm woodlots in Khushab, Punjab.  
Person-months: 0.9
- Organized and conducted a half-day workshop for 12 farmers on the marketing of products from farm woodlots in Chiniot, Punjab.  
Person-months: 0.3
- Organized and conducted a half-day workshop for 38 farmers on the raising of poplar nurseries and thinning of poplar woodlots in Taxila, Punjab.  
Person-months: 0.9
- Organized and conducted one-day workshops for 13 village motivators in NWFP and Balochistan.  
Person-months: 0.6
- Organized and conducted a 1-day tour for 110 farmers on the establishment and management of farm woodlots in Balochistan.  
Person-months: 5.0

#### 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 preparation for the 1993 Winter Tree Planting Campaign.
- Presented the keynote address at the "People, Trees & Environment" conference in Islamabad.
- Assisted and provided resource information to a USAID/Washington team during their Environmental Programs Evaluation mission in Pakistan.

- Developed five agroforestry cash flow models of farm forestry for use by the USAID Environmental Programs Evaluation mission.
- Facilitated international travel to and participated in the F/FRED Steering Committee meeting held December 1-2, 1992 at Peshawar.
- Gary R. Archer completed his consultancy which developed recommendations for a GIS facility at PFI, Peshawar.  
Person-months: 0.8
- Dr. Charles W. Mcketta completed his 4-week consultancy (November 14 - December 8, 1992) at PFI. During this period he taught classes in forest economics and management to M.Sc. students and prepared teaching materials for use in the M.Sc. curriculum.  
Person-months: 0.9

#### 5. Research Management

- Organized and held the Annual Forestry Research Review meeting at Pakistan Forest Institute on October 26-27, 1992.

### B. OPERATIONAL ACTIVITIES

1. Barani/Irrigated Plantations - Balochistan, NWFP, Punjab and Sindh
  - a. Nursery Development
    - 614 farm forestry nurseries were established and began operation in Punjab, Balochistan and NWFP.
  - b. Tree Planting
    - 5.2 million tree seedlings were planted by farmers in Punjab, Balochistan and NWFP.
  - c. Extension/Outreach/Recognition
    - 3,702 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.
    - 13 village motivators were trained in NWFP and Balochistan.

- 110 farmers participated in study tours from Balochistan.
- d. Land Development and Soil Conservation
- 337 acres of land development and soil conservation works were completed in the Punjab, Balochistan and NWFP.
- e. Monitoring and Evaluation
- Consultancy to assess equipment, facility and staff requirements for establishment of a GIS capability within the O/IGF was completed.
  - Data collection, summary and preparation of Forestry Statistics of Pakistan, 17 p.
  - Initiated a survey of farm forestry nurseries in Punjab to determine the number of seedling which are being sold directly to the general public.
  - Ghulam Q. Shah, Database Cell Officer, resigned his post for permanent employment in the Sindh Forest Department on 17 December 1992.
  - Raja M. Omer, Database Cell Officer, joined the Database Cell on 15 November 1992. In October 1992 he graduated with a M.Sc. Forestry degree from PFI.
  - Shaukat Ali Khan, Database Cell Officer, joined the Database Cell on 18 December 1992. In October 1992 he graduated with a M.Sc. Forestry degree from PFI.
2. Irrigated Plantations - Sindh
- 300 acres of afforestation works were completed this quarter.
3. NGO Activities
- The FP&D Grant Unit awarded grants to the following NGOs:
    - Orangi Pilot Project, Sindh
      - Seedling Production - \$6,300
    - MATUA Social Welfare Association, Punjab
      - Seedling Production - \$2,000
    - Saiban Action Research for Shelter, Sindh
      - Develop Capacity - \$4,900
    - Sarhad Rural Support Corporation, NWFP
      - Seedling Production - \$31,400
    - Pakistan Tree Farm Society, Islamabad
      - Seedling Production - \$12,700

Pakistan Tree Farm Society, Islamabad  
Awareness - \$29,400  
Pakistan Youth Council, Sindh  
Seedling Production - \$2,700  
Pakistan Environment Protection Foundation, NWFP  
Environmental Education - \$15,400

- Organized a seminar on the Project's NGO activities for USAID/Pakistan officers.

#### 4. Special Studies

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

- Initiated a marketing test trial in which 300 tons of farm grown Eucalyptus in Chiniot, Punjab were harvested, transported and sold to a chipboard manufacture at Jhelum, Punjab.

##### o Farm Forestry Field Guides

- Technical Note No. 10: Need of the Hour - Transfer of Technology.  
English document was prepared, printed and distributed.
- Technical Note No. 11: Suitable Tree Species for Different Agro-Ecological Regions and Civil Divisions of Pakistan.  
English document was prepared, printed and distributed.
- Tree Farmers Guide No. 2: Pruning Timber Trees.  
English document was prepared, printed and distributed.
- Tree Farmers Guide No. 3: Managing Coppice Sprouts.  
English document was prepared, printed and distributed.
- Tree Farmers Guide No. 4: Farm Trees - Chinaberry.  
English document was prepared, printed and distributed.
- Tree Farmers Guide No. 5: Farm Trees - Ber.  
English document was prepared, printed and distributed.

##### o Farm Forestry Communications

- Farm Forestry Newsletter, Vol. 4, Issue No. 2  
English/Urdu version printed and distributed.
- Forestry Planning and Development Project color brochure.  
English/Urdu version printed and distributed.

o Farm Forestry Research Documents

- Wood Quality Technical Note WQ - TN 1: Improving the Quality of Wood Produced from Eucalyptus Trees. English and Urdu documents were prepared, printed and distributed.
- The Development Counterpart as Development Subject: An Illustration from Pakistan's Forestry Sector. Culture & Agriculture Bulletin, No. 44:13-16.
- Foresters' Beliefs about Farmers: A Priority for Social Science Research in Social Forestry. Agroforestry Systems 17(1):13-41.
- Farmer Behavior and Forester Belief: Unraveling the Misconceptions. Farm Forestry News 5(4):1, 3-4.

o Degree Training Teaching Materials

- Published

Forest Valuation Theories and Applications. Lecture Notes, Study Objectives and Exercises prepared by Charles McKetta, 40 p.

Forest Economics and Forest Management. Lecture Outlines and Visual Aids prepared by Charles McKetta, 26 p.

- 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

- PFRI prescribed silvicultural treatments and marked stands to enhance seed production areas in Punjab.
- A study was initiated at PFRI to determine the volume and weight of bark on farm grown Eucalyptus trees.
- Country Status Report on AgroForestry Systems Research & Development was presented by Rafiq Ahmad at the Second APAN Project Advisory Committee Meeting in Kathmandu, Nepal on 1-8 October 1992.
- 47 research projects and studies are currently on-going.

## C. CONSTRUCTION

### 1. PFI

- Construction of the women's hostel is complete.

### 2. Provincial Office Facilities

- Construction of 2 nursery huts and 1 RFO offices in Punjab is complete.
- Construction of 1 RFO office in Punjab is 96% complete.
- Reimbursement agreements for 6 offices and nursery huts in Sindh has been signed.

### 3. Provincial Research and Training Facilities

- Request for Construction Proposals for hostels at Ghora Gali and Abbottabad, 2 lecture rooms at Gatwala and a research/training unit at Quetta and Miani have been issued.

## PROJECT IMPLEMENTATION ISSUES

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

#### Balochistan Project Implementation Concerns

Officers in the O/IGF, in collaboration with the Balochistan Government, have identified and implement project adjustments which will facilitate the attainment of project objectives and targets. The report on these meetings and the actions taken was circulated to concerned Project staff. As of November, project activities were improved.

#### Sindh Irrigated Plantation Implementation Concerns

Officers in the O/IGF, in collaboration with the Sindh Government, have identified and implement project adjustments required to facilitate the attainment of irrigated plantation forestation objectives and targets. To some degree, the forestation effort was set-back by this quarter's heavy rains and floods. To facilitate future progress and monitoring and evaluation efforts, a work plan has been prepared and implemented which schedules forestation activities. As of December, forestation efforts were progressing as scheduled in the revised work plan.

## B. NEXT QUARTER'S ISSUES

### World Bank Social Forestry Identification 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 Agriculture Environment/Social Forestry Project Identification Mission has added importance in this context.

**ACTION:** The O/IGF, USAID and TAT, in collaboration with the World Bank, will participate in the preparation of an Identification Mission report that highlights possible farm forestry follow-on programs which could help sustain private sector initiatives associated with the FPD Project.

## PROPOSED PROJECT ACTIVITIES FOR NEXT QUARTER

### A. INSTITUTIONAL AND MANPOWER DEVELOPMENT

1. Project Reporting and Coordination
  - Approval 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 distributed.
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
    - The Project's last batch of B.Sc. and M.Sc. scholarship students continue their two year program of forestry training.
  - c. Short-Term Overseas
    - Nominees are registered for overseas workshops.

d. In-Country Technical Training

- Conduct workshops on farm forest technologies.
- Assist with arrangement for 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 Agriculture Environment/Social Forestry Project Identification 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 winter 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
  - Continue the 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 Farmer Guides on Grading, Root Pruning and Hardening Off Nursery Seedlings.
    - Prepare and distribute a Manual on Tree Farming for use in the Winter Tree Planting Campaign.
    - Continue preparation of a technical note on Calculating Stumpage Prices of Farm Grown Materials.
- 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 offices and nursery huts 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<br/>Budget Amount</u> | <u>31 Dec 92<br/>Cumulative<br/>Expended</u> | <u>Percent<br/>Expended</u> |
|---|---------------------------------|--|-----------------------------|
| 1. Salaries and Wages                   | \$1,158,431                     | \$ 973,419.29                                | 84.03                       |
| 2. Fringe Benefits                      | 305,479                         | 223,773.38                                   | 73.25                       |
| 3. Overhead                             | 682,021                         | 565,472.32                                   | 82.91                       |
| 4. Travel, Transportation<br>& Per Diem | 700,673                         | 461,787.98                                   | 65.91                       |
| 5. Allowances                           | 300,363                         | 252,944.61                                   | 84.21                       |
| 6. Other Direct Costs                   | 425,696                         | 436,896.70                                   | 102.63                      |
| 7. Local Training                       | 150,000                         | 171,594.86                                   | 114.40                      |
| 8. Commodities                          | 400,000                         | 397,748.38                                   | 99.44                       |
| 9. Subcontracts                         | 75,000                          | 48,847.00                                    | 65.13                       |
| Total Expended                          | \$4,197,663                     | \$3,532,484.52                               | 84.15                       |

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

| <u>Line Item</u>     | <u>Budgeted<br/>Amount</u> | <u>31 Dec 92<br/>Cumulative<br/>Expended</u> | <u>Percent<br/>Expended</u> |
|----------------------|----------------------------|--|-----------------------------|
| <u>USAID</u>         |                            |  |                             |
| Technical Assistance | \$ 7,500,000               | \$ 6,852,115                                 | 91.36                       |
| Training             | 4,250,000                  | 2,133,295                                    | 50.20                       |
| Commodities          | 3,400,000                  | 2,360,122                                    | 69.42                       |
| Other Costs          | 11,900,000                 | 9,359,445                                    | 78.65                       |
| Evaluation           | 450,000                    | 175,729                                      | 39.05                       |
| Total Reimbursable   | \$27,500,000               | \$20,880,706                                 | 75.93                       |
| <u>GOP</u>           |                            |  |                             |
| Non-Reimbursable     | Rs. 178,000,000            | Rs. 83,937,308                               | 47.16                       |

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

**PUBLICATIONS AND PUBLISHED ARTICLES**

- Michael R. Dove. 1992. The Development Counterpart as Development Subject: An Illustration from Pakistan's Forestry Sector. Culture and Agriculture Bulletin, No. 44:13-16.
- Michael R. Dove. 1992. Foresters' Beliefs about Farmers: A Priority for Social Science Research in Social Forestry. Agroforestry Systems 17(1):13-41.
- Michael R. Dove. 1992. Farmer Behavior and Forester Belief: Unraveling the Misconceptions. Farm Forestry News 5(4):1, 3-4.

**TECHNICAL NOTES**

- M.I. Sheikh. 1992. Need of the Hour - Transfer of Technology. Technical Note No. 10, (English) Forestry Planning and Development Project, 12 p.
- M.I. Sheikh. 1992. Suitable Tree Species for Different Agro-Ecological Regions and Civil Divisions of Pakistan. Technical Note No. 11, (English) Forestry Planning and Development Project, 24 p.

**TREE FARMERS GUIDES**

- Gary G. Naughton. 1992. Pruning Timber Trees. Tree Farmers Guide No. 2, (English) Forestry Planning and Development Project, 2 p.
- Gary G. Naughton. 1992. Managing Coppice Sprouts. Tree Farmers Guide No. 3, (English) Forestry Planning and Development Project, 2 p.
- Gary G. Naughton. 1992. Farm Trees - Chinaberry. Tree Farmers Guide No. 4, (English) Forestry Planning and Development Project, 2 p.
- Gary G. Naughton. 1992. Farm Trees - Ber. Tree Farmers Guide No. 5, (English) Forestry Planning and Development Project, 2 p.

## TRAINING MATERIALS

S.M. Yasin and S.M. Raza. 1992. Improving the Quality of Wood Produced from Eucalyptus Trees. Wood Quality Technical Note WQ: TN 1. (Urdu and English) Forest Products Research Division, Pakistan Forest Institute, 16 p.

Charles W. McKetta. 1992. Forest Valuation Theories and Applications. Lecture Notes, Study Objectives and Exercises. Forestry Planning and Development Project, 40 p.

Charles W. McKetta. 1992. Forest Economics and Forest Management. Lecture Outlines and Visual Aids. Forestry Planning and Development Project, 26 p.

## NEWSLETTERS

Forestry Planning and Development Project. 1992. Farm Forestry Newsletter. (English and Urdu) Vol. 4, Issue 2, 10 p.

## UNNUMBERED REPORTS

Pakistan Forest Institute. Forestry Statistics of Pakistan. forestry Planning and Development Project, 17 p.

## PAPERS

Rafiq Ahmad. 1992. Country Status Report on AgroForestry Systems Research & Development. Presented at the Second APAN Project Advisory Committee Meeting in Kathmandu, Nepal on 1-8 October 1992, 6 p.

## CONSULTANCY REPORTS

Gary R. Archer. 1992. Recommendations on Geographic Information System Facilities for the Pakistan Forest Institute. Consultant Report, Winrock International, 15 p.

Mark Behan. 1992. Report on Forest Ecology Teaching Consultancy. Consultant Report, Winrock International, 16 p.

William Elam and J.A. Vozzo. 1992. National Workshop on Seed Technology. Consultant Report, Winrock International, 5 p. plus Appendices

Charles W. McKetta. 1992. Report on Forest Economics and Management Teaching Consultancy. Consultant Report, Winrock International, 6 p.

**MISCELLANEOUS MATERIALS**

Winrock International. 1992. Color Brochure. Forestry  
Planning and Development Project, 6 p.