

### Appendix

Appendix Table 1: Average cost of different conservation measures (Nayakkakorala, 1999)

| Conservation Measure        | Unit | Unit Cost Rs. | *Average Cost per ha |
|-----------------------------|------|---------------|----------------------|
| Earth bund                  | 1m   | 12.50         | 7800.00              |
| Hedgerow: Sticks            | 1m   | 9.00          | 10500.00             |
| Stone terracing             | 1m   | 96.00         | 111000.00            |
| Bench terracing             | 1m   | 50.00         | 60000.00             |
| Lock & Spill Contour Drains | 1m   | 20.00         |                      |

\* Across all the slope classes

Appendix Table 2: Recommended spacing between hedgerows on different slopes (m)

| Slope % | Spacing between hedgerows (m) |
|---------|-------------------------------|
| 10-19   | 12                            |
| 20-29   | 09                            |
| 30-39   | 06                            |
| 40-49   | 4.5                           |
| 50-59   | 3.0                           |

Appendix Table 3: Recommended spacing between stone terraces in different slopes

| % Slope | Spacing (m)                |
|---------|----------------------------|
| 11-20   | 12                         |
| 21-30   | 09                         |
| 31-40   | 06                         |
| 41-50   | 4.5                        |
| 51-60   | 3.0                        |
| >60     | Cultivations not permitted |

Appendix Table 4: Cost of different soil conservation practices (Nayakakorala,1999)

| Slope Class% | Recommended Conservation | Length or Volume per ha | Labor Man Days Skilled | Labor Man Days Non-Skilled | Requirements              |
|--------------|--------------------------|-------------------------|------------------------|----------------------------|---------------------------|
| 0-10         | Earth bunds              | 625 m                   | 1.5                    | 75                         |                           |
| 11-20        | Earth bunds              | 800 m                   | 2                      | 95                         |                           |
|              | Hedgerows                | 800 m                   | 2                      | 11                         | 11,500 sticks             |
|              | Stone terrace            | 800 m                   | 200                    | -                          | 290 m <sup>3</sup> Rubble |
| 21-30        | Hedgerows                | 950 m                   | -2.5                   | 13                         | 13,500 sticks             |
|              | Stone terrace            | 950 m                   | 240                    | -                          | 340 m <sup>3</sup> Rubble |
|              | Bench terrace            | 1250 m <sup>3</sup>     | 2                      | 625                        |                           |
| 31-40        | Hedgerows                | 1250 m                  | -3                     | 17                         | 17,500 sticks             |
|              | Stone terrace            | 1250 m                  | 315                    | -                          | 450 m <sup>3</sup> Rubble |
|              | Bench terrace            | 1200 m <sup>3</sup>     | 2                      | 600                        |                           |
| 41-50        | Hedgerows                | 1750 m                  | 4                      | 24                         | 24,500 sticks             |
|              | Stone terrace            | 1750 m                  | 440                    | -                          | 630 m <sup>3</sup> Rubble |
|              | Bench terrace            | 1140 m <sup>3</sup>     | 2                      | 570                        |                           |

Skilled labor: 200 Rs/day, Non-Skilled labor: 100 Rs/day, Stick 1 No:0.50 Rs, Rubble 1 m<sup>3</sup>:125 Rs

Appendix Table 5: Changes in pattern of agricultural land use in Sri Lanka (1962-1982)

| Type of Agricultural Land Use*              | 1962         | 1982         |
|---|--------------|--------------|
| Paddy                                       | 28.7         | 32.3         |
| Annual Crops                                | 4.3          | 11.3         |
| Major Plantation Crops                      | 58.0         | 46.2         |
| Other Permanent Crops                       | 9.0          | 10.2         |
| <b>Total</b>                                | <b>100.0</b> | <b>100.0</b> |
| Total Agricultural Land as% of Whole Island | 28.8         | 30.1         |

Source: Censuses of Agriculture 1962 and 1982, Department of Census and Statistics.

## Curriculum Vitae

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|--------------------------------|--|
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