Table S1. Marginal costs of technologies.

|  |  |
| --- | --- |
| Variable marginal costs\* | US$ kg-1 |
|  | Labour for harvesting and threshing |  0.053 |
|  | Harvest bags |  0.010 |
|  | Transport produce to homestead |  0.017 |
|  | Total |  0.080 |
|  |  |  |
| Fixed marginal costs | US$ ha-1 |
|  Inoculation |  |
|  | Procurement inoculants |  2.00 |
|  | Transport to nearest supplier |  6.00 |
|  | Total |  8.00 |
|  Fertilizer 1 (100 kg ha-1) |  |
|  | Super D fertilizer 2 bags |  93.33 |
|  | Transport |  10.67 |
|  | Labour fertilizer application |  13.33 |
|  | Total | 117.33 |
|  Fertilizer 2 (300 kg ha-1) |  |
|  | Super D fertilizer 6 bags | 280.00 |
|  | Transport |  16.00 |
|  | Labour fertilizer application |  13.33 |
|  | Total | 309.33 |
|  Compost manure (6 t ha-1) |  |
|  | Labour for making manure |  26.67 |
|  | Transport of manure to the field |  10.67 |
|  | Labour manure application in the field |  20.00 |
|  | Total |  57.33 |
|   Improved variety |  |
|  | Procurement logistics/transport |  10.67 |
|  | Additional costs 80 kg certified seed |  80.00 |
|  | Total |  90.67 |
|  Increase plant population |  |
|  | 20 kg certified seed |  33.33 |
|  | Additional labour planting two lines per ridge |  24.00 |
|  | Total |  57.33 |
|  Pest and disease control |  |
|  | Costs of Cypermethrin |  13.33 |
|  | Costs of Folicur |  18.00 |
|  | Transport to town |  8.00 |
|  | Labour chemical application |  6.67 |
|  | Rent of sprayer |  6.67 |
|  | Total |  52.67 |