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 |