**MVULE PROJECT FOR CARBON CAPTURE**

**CALCULATIONS FOR CO2 CAPTURE FOR £6 DONATION**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **TREE SPECIES** | **No. of TREES**  **Planted** | **Min. yrs. before harvesting** | **CO2 capture (Tonnes) at**  **10 yrs** | **CO2 capture (Tonnes) at**  **20 yrs** | **CO2**  **capture (Tonnes) at**  **80 yrs** | **Total CO2 Capture**  **(Tonnes)** |
| Mvule (*M.excelsa*) | 7 | 80 | 28 | 70 | 280 | 280 |
| *Terminalia superba* | 1. 3 2. 4 | 1. 10 2. 20 | 12  16 | ---  40 | ---  --- | 12  40 |
| *Maesopsis eminii* | 1. 3 2. 4 | 1. 6-10 2. 11-20 | 12  12 | ---  30 | ---  --- | 12  30 |
| Sub Totals | 21 |  | 52 | 110 | 280 | 374 |
| 20% tree mortality | Expected maximum tree loss mainly in early years of growth = 4 trees | | | | | -75 |
| ESTIMATED CO2 CAPTURE FOR TREES AT MINIMUM HARVEST PERIOD | | | | | | **299** |

Notes:

1. Calculations based on Uganda community data, surveys and scientific reports on the *Milicia excelsa*, *Terminalia superba* and *Maesopsis eminii*. Data calculations compiled July 2020.
2. *M.excelsa* outside of commercial logging sites will grow well beyond 80 years.
3. *T.superba* a. Timber harvest in short term b. timber harvest in long term.
4. *M.eminii* a. Fuelwood harvest in short term b. fuelwood and timber in long term*.*