**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
 | 1216 | ---40 | ------ | 1240 |
| *Maesopsis eminii* | 1. 3
2. 4
 | 1. 6-10
2. 11-20
 | 1212 | ---30 | ------ | 1230 |
| 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*.*