

**General information**

|                   |                            |       |                                                        |
|-------------------|----------------------------|-------|--------------------------------------------------------|
| Project code      | MAA-L-001                  |       |                                                        |
| Project name      | Maara                      |       |                                                        |
| Location          | Brazil                     |       |                                                        |
| Area              | 2,40                       | ha    |                                                        |
| Duration          | 100                        | years | estimated permanence of removal and storage            |
| Holding pool      | 20%                        |       | freed up when measurements confirm projection pathways |
| Project emissions | 20%                        |       | LCA estimate, or specified when >20%                   |
| Out of scope      | Construction stored carbon |       | Certificates to be modeled and issued separately       |

**Per hectare**

|                    |     |         |                                                                              |
|--------------------|-----|---------|------------------------------------------------------------------------------|
| Baseline TEC       | 479 | tCO2/ha | Above Ground, Below Ground and Soil Organic Carbon, following CDM AR-ACM0003 |
| Reference capacity | 958 | tCO2/ha | Using CEDA and Soil sample data                                              |
| Storage potential  | 480 | tCO2/ha | Projection +/- baseline                                                      |

**Per project**

|                       |       |      |                                             |
|-----------------------|-------|------|---------------------------------------------|
| Projected storage     | 1.151 | tCO2 | storage potential per ha x area             |
| LCA emissions         | 230   | tCO2 | project related emissions                   |
| Net storage potential | 921   | tCO2 | project storage +/- emissions over 20 years |

**Removal credits issued**

|                        |     |         |                                                               |
|------------------------|-----|---------|---------------------------------------------------------------|
| Credits first 12 years | 553 | credits | 12/20 x net storage potential x permanence (100yr equivalent) |
| Holding Pool           | 111 | credits | 20% of the first 12 years                                     |
| Credits issued dd      | 442 | credits | 80% of the first 12 years                                     |

| Field Code | Field name     | Size (ha) | Owner        | Notes     |
|------------|----------------|-----------|--------------|-----------|
| 001        | grasland capim | 2,4       | Robert Smits | syntropic |
| 002-R      | reference      |           | Robert Smits |           |

[illegible]















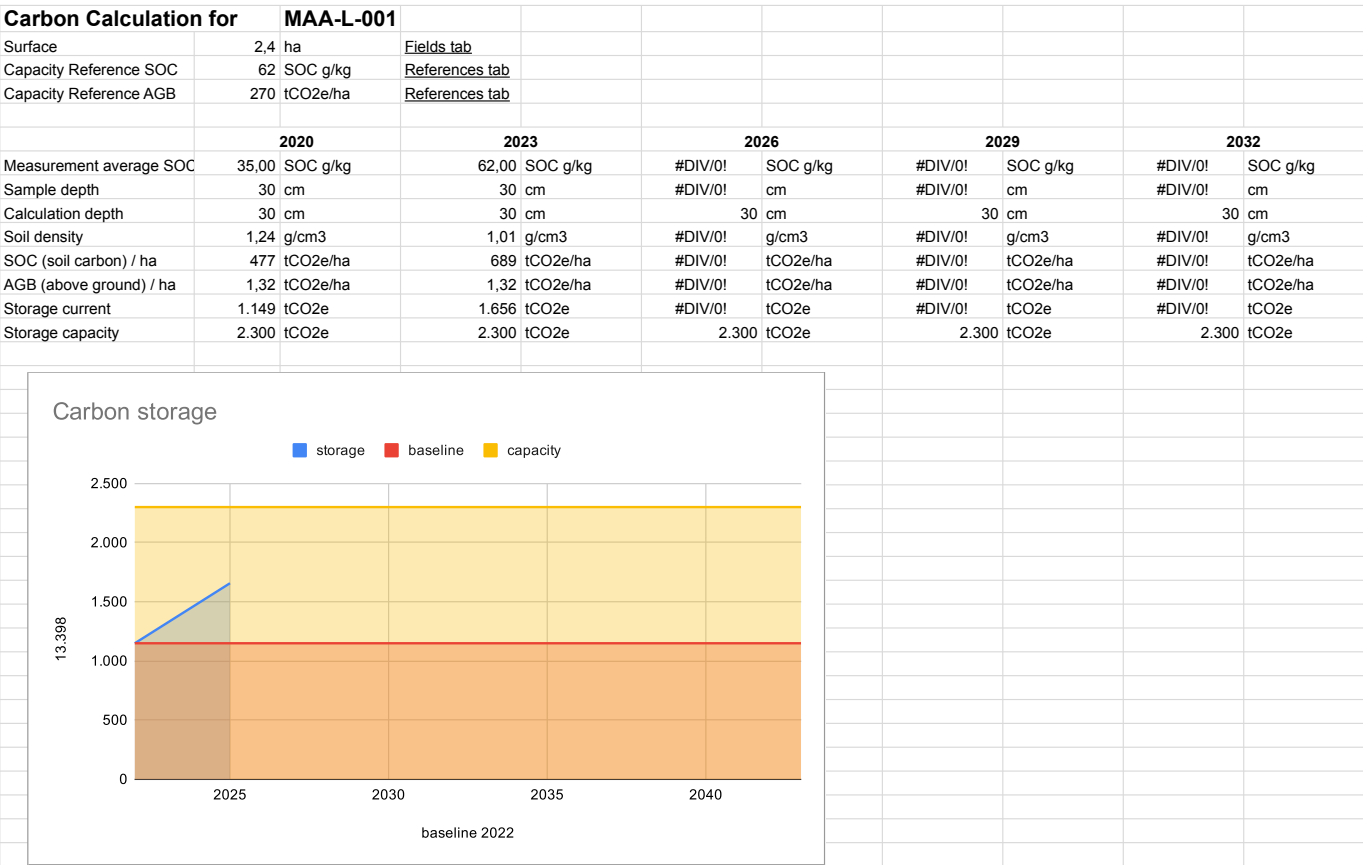












|                                    |                                                                                                                                  |                                                   |                                                                      |  |  |  |  |  |  |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|----------------------------------------------------------------------|--|--|--|--|--|--|
| <b>Sources</b>                     |                                                                                                                                  |                                                   |                                                                      |  |  |  |  |  |  |
| <b>value</b>                       | <b>source</b>                                                                                                                    | <b>URL</b>                                        | <b>Notes</b>                                                         |  |  |  |  |  |  |
| CEDA aboveground biomass carbon    | <a href="https://climatee">https://climatee</a>                                                                                  | <a href="https://dataceda">https://dataceda</a>   | 2018 data                                                            |  |  |  |  |  |  |
| SOC                                | A critical review of the conventional SOC to SOM conversion factor (Geoderma, Volume 156, Issues 3–4, 15 May 2010, Pages 75-83 ) |                                                   |                                                                      |  |  |  |  |  |  |
| Density                            | Wageningen Ur                                                                                                                    | <a href="https://edepot.wu">https://edepot.wu</a> | We've added these soil density levels to the calculation factors tab |  |  |  |  |  |  |
| <b>Reference data for capacity</b> |                                                                                                                                  |                                                   |                                                                      |  |  |  |  |  |  |
| Reference description              | A reference measurement was taken from a forest next to the Maara farm                                                           |                                                   |                                                                      |  |  |  |  |  |  |
| Data location                      | Brazil, next to Maara farm                                                                                                       |                                                   |                                                                      |  |  |  |  |  |  |
| SOC (soil)                         | 62                                                                                                                               | gC/kg                                             | based on reference measurements from nearby forest                   |  |  |  |  |  |  |
| AGB (above ground)                 | 270                                                                                                                              | tCO2e/ha                                          | based on reference measurements from nearby forest                   |  |  |  |  |  |  |

|               |                  |                  |              |
|---------------|------------------|------------------|--------------|
| from C to CO2 | 3,666666667      |                  |              |
| soil density  | % organic matter | % organic carbon | soil density |
| 1,59          | 0,5              | 0,25             | 1,59         |
| 1,52          | 1,5              | 0,75             | 1,52         |
| 1,45          | 2,5              | 1,25             | 1,45         |
| 1,39          | 3,5              | 1,75             | 1,39         |
| 1,34          | 4,5              | 2,25             | 1,34         |
| 1,29          | 5,5              | 2,75             | 1,29         |
| 1,24          | 6,5              | 3,25             | 1,24         |
| 1,18          | 7,5              | 3,75             | 1,18         |
| 1,13          | 8,5              | 4,25             | 1,13         |
| 1,09          | 9,5              | 4,75             | 1,09         |
| 1,05          | 10,5             | 5,25             | 1,05         |
| 1,01          | 11,5             | 5,75             | 1,01         |
| 0,96          | 12,5             | 6,25             | 0,96         |
| 0,93          | 13,5             | 6,75             | 0,93         |
| 0,9           | 14,5             | 7,25             | 0,9          |
| 0,87          | 15,5             | 7,75             | 0,87         |
| 0,84          | 16,5             | 8,25             | 0,84         |
| 0,81          | 17,5             | 8,75             | 0,81         |
| 0,79          | 18,5             | 9,25             | 0,79         |
| 0,77          | 19,5             | 9,75             | 0,77         |
| 0,75          | 20,5             | 10,25            | 0,75         |
| 0,73          | 21,5             | 10,75            | 0,73         |
| 0,71          | 22,5             | 11,25            | 0,71         |
| 0,7           | 23,5             | 11,75            | 0,7          |
| 0,69          | 24,5             | 12,25            | 0,69         |
| 0,67          | 25,5             | 12,75            | 0,67         |
| 0,65          | 27               | 13,5             | 0,65         |
| 0,62          | 29               | 14,5             | 0,62         |
| 0,6           | 31               | 15,5             | 0,6          |
| 0,58          | 33               | 16,5             | 0,58         |
| 0,56          | 35               | 17,5             | 0,56         |
| 0,54          | 37               | 18,5             | 0,54         |
| 0,52          | 39               | 19,5             | 0,52         |
| 0,5           | 41               | 20,5             | 0,5          |
| 0,49          | 43               | 21,5             | 0,49         |
| 0,47          | 45               | 22,5             | 0,47         |
| 0,46          | 47               | 23,5             | 0,46         |
| 0,44          | 49               | 24,5             | 0,44         |