

P46B- CALCULATION TOOL PROCEDURE



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Objective

The purpose of this document is to standardize the calculation tool to be developed so that it is possible to calculate the project's carbon balance and the credits generated.

The calculation tool is essential for understanding, monitoring, and optimizing project management practices, enabling analysis of carbon dynamics in soil, animal, and plant components, contributing significantly to climate change mitigation efforts.

The Calculation Tool must be updated whenever there is a review of the IPCC, APA, FAO, EDP references used as a basis, which are considered relevant.

Scope of Application

This procedure applies to all project promoters who wish to certify their project both nationally and internationally.

References

- IPCC
- APA
- FAO
- EDP

Responsibilities

CERTIS is responsible for issuing, modifying, reviewing and approving this procedure, based on the CCC+ standard and its reference standards.

Calculation Tool

The Calculation Tool must be used per calendar year, January 1st to December 31st.

Procedure

All requirements and standards mentioned here are mandatory to ensure the integrity and credibility of the certification process. This procedure serves as an essential guide to ensure that all certification bodies and project developers operate consistently and in compliance with the standards of excellence required by the CCC+ certification scheme.

To ensure the uniformity, accuracy and traceability of the data used in the calculation tool, each field of the tool must be duly completed with the information provided by the carbon project promoters.

At the end of the completion, the 'Validation' Excel Sheet must be reviewed by CERTIS before submission to ensure that all mandatory data is completed and correct.

1. Satellite Reading

The credibility of the generated carbon credits depends on the quality and reliability of the data used in the calculations. To reinforce this principle, this tool will use exclusively satellite readings provided by CERTIS. Therefore, the certification body must provide CERTIS with the project's plots in shapefile format, as well as information on the plots' composition.

2. General Data

General Data must be filled in on the "EXPLORATION DATA" sheet.

Initially, the first topic must include the name of the farm, the calendar year, total area and climatic region.

It should be noted that the climatic region is classified as:

- 1- When the average annual temperature is between 15 and 20°C;
- 2- When the average annual temperature is less than 15.

3. Agricultural Data and Forestry Data

Agricultural Data and Forestry Data must be completed on the "EXPORTATION DATA" sheet.

Regarding the plant component, depending on the crop, the following fields will be filled in:

- Initial biomass - Sum of the biomass of the year in which the crop plots began (tons of dry matter);
- Start date - 01/01/start year;
- Final biomass - Sum of the biomass of the following year of the crop plots (tons of dry matter);
- End date - 01/01/following year;
- Fruit Harvesting - If there is a harvest, it must be converted to dry matter (tons of dry matter);
 - Conversion factors for some crops (average value):
 - Cork- 80%;
 - Grape- 20%;
 - Olive- 40%;
 - Hay silage - 40%;
 - Pine cone- 70%;
 - Wood- 85%.

Data should be reported according to project promoter records and correspond to the calendar year. Whenever possible, attach documentary evidence (records, invoices, maps).

4. Livestock Data

Livestock Data should be completed on the "FARM DATA" sheet if it concerns the live animal component. When animals are sold, sheet "12" should be completed with the quantity of animals sold in kg.

The distribution of the animal component must be done by species and age group, noting that it is also necessary to fill in the Type of effluent management per animal, for example, if there is only grazing, enter 100% in the “Pasture” column.

If you purchase feed for the animal component, fill in sheet “14” with the total kg purchased.

Data should be reported according to project promoter records and correspond to the calendar year. Whenever possible, attach documentary evidence (records, invoices, maps).

5. Pedological Data

For Soil Data, enter the amounts (kg) of fertilizers applied, in terms of Nitrogen or Dry Matter, on the "EXPLORATION DATA" sheet. If limestone, dolomite, and urea were applied, the amounts (kg) applied must also be entered. For Organic Matter accounting, fill out sheet "13" and allocate each soil analysis to the respective crop and corresponding area (ha), as well as the apparent density (g/cm³). If there is no soil analysis data, the default organic matter value is 0 (zero).

Soil analysis data must be provided by project developers and comply with the Soil Analysis Procedure.

6. Other Data

Finally, the Other Data must be filled in on the “EXPERIENCE DATA” sheet with the quantities of fuel and electricity consumed per calendar year.

Data should be reported according to project promoter records and correspond to the calendar year. Whenever possible, attach documentary evidence (records, invoices, maps).

File

Each project has an individual file folder where all documents/records relating to its certification process are archived.

All documents/records must be archived for a minimum period of 10 years or for the legally required period.