



User Manual – CATTLEFLOW

September 2025

Alliance Bioversity International and International Center for Tropical
Agriculture (CIAT)

Cali, Colombia



Introduction

CATTLEFLOW is an application for the economic evaluation of cattle production systems. It allows users to enter farm conditions, market conditions, investments, costs, and revenues, and then calculate cash flows, financial metrics, sensitivity analyses, and Monte Carlo simulations.

Authors and Credits

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Suggested citation: Yepes-Quintero, R; Flórez, F & Burkart, S. 2025. *CATTLEFLOW – Cattle Cash Flow and Economic Evaluation*. Version 1.0. CIAT, Cali, Colombia.

System Requirements

The application runs locally and does not require additional dependencies. The user only needs the generated executable file (.exe format for Windows).

Initial Execution

When opening the .exe file, the application runs in console mode and displays the local address <http://127.0.0.1:5000>, which must be accessed from a web browser.

Data Input – Main Buttons

The main buttons allow you to:

- **Template:** Download the Excel template.
- **Clear:** Clear all data.
- **Load:** Load data from Excel (the full file path must be specified).

Data Input – Market Conditions

In this section, users configure **Exchange Rate, Inflation, and Discount Rate**.



- Inflation can be fixed or provided as a time series (CSV).
- If a CSV file is used, the full file path must be specified. The file must contain a single column with the time series data to be applied.

Dynamic Tables

All tables allow rows to be added (+) or removed (-), so the model can be adapted to each scenario.

Calculation

After entering the information, press **Calculate** to generate the consolidated cash flow and financial metrics.

Simulation

When simulation is enabled, the **Simulation Input** table appears. Users can define variables, distributions, and parameters:

- **Weibull:** (mean, standard deviation)
- **Triangular:** (minimum, mode, maximum)
- **Uniform:** (minimum, maximum)
- **Normal:** (mean, standard deviation)

Results and Export

The application generates tables and charts of cash flows and financial metrics. Results can be downloaded in CSV format using the available buttons.

Disclaimer

This application was developed by experienced economists using established methods of economic evaluation. Neither the authors nor CIAT are responsible for the use of the application or any decisions made based on it.

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