FONTAGROTECH

Gas chromatography methodology for the measurement of Greenhouse Gases

COSTA RICA / HONDURAS / NICARAGUA / PANAMA

Webstory

1 NO POVERTY · 2 ZERO HUNGER · 3 GOOD HEALTH AND WELL-BEING · 11 SUSTAINABLE CITIES AND COMMUNITIES · 12 RESPONSIBLE CONSUMPTION AND PRODUCTION · 13 CLIMATE ACTION · 17 PARTNERSHIPS FOR THE GOALS

The technological solution

In livestock, the main sources of emissions correspond to enteric methane and nitrous oxide derived from nitrogen fertilization of pastures and forage crops. It is necessary to develop and validate protocols adapted to the livestock systems of the region to determine the amount of these gases emitted.

Description

A protocol was developed for the estimation of nitrous oxide and methane using gas chromatography adapted to the INTA laboratory in Costa Rica. This laboratory serves as a reference for the region.

Results

- A model for estimating Greenhouse Gases (GHG) according to the 2006 IPCC.
- Quantified GHG emissions in the different livestock production systems of the region with different degrees of intensification.
- Communication, outreach and advocacy mechanisms have been developed to promote the use of competitive livestock systems with low GHG emissions.

400
Farms benefited

74
Trained technicians

4
Thesis

MAIN DONORS

FONTAGRO · Ministry for Primary Industries Manatū Ahu Matua

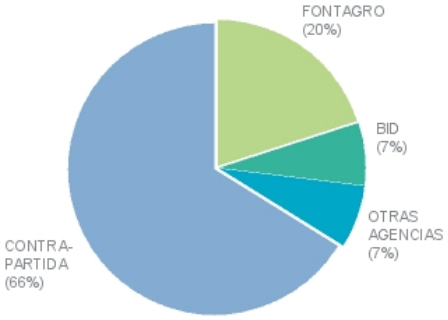
PARTICIPATING ORGANIZATIONS

CATIE · idiap · inta · INTA

ABOUT FONTAGRO

FONTAGRO is a unique cooperation mechanism for agricultural innovation in Latin America and the Caribbean (ALC) and Spain, that works through regional platforms. It is composed of 15 countries that have contributed capital exceeding 100 million dollars and the Inter-American Development Bank (IDB), which is its legal representative.

ORIGIN OF RESOURCES



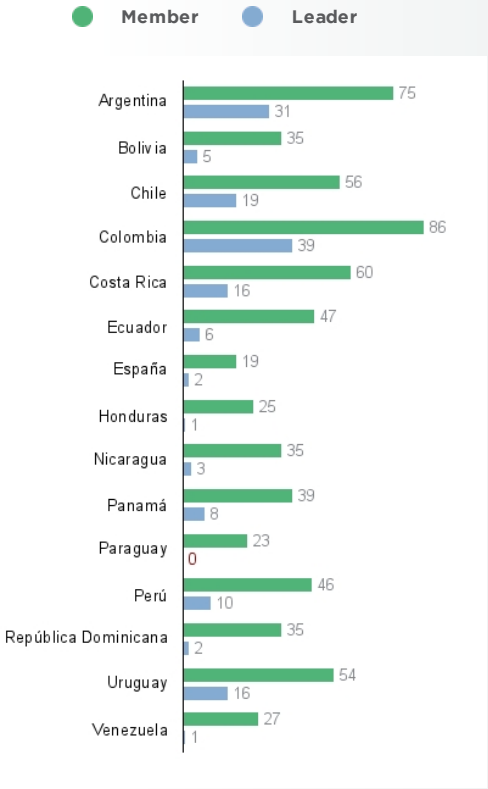
Counterpart contribution
93.177.555

FONTAGRO
28.989.468

IDB
9.922.700

Other agencies
9.809.078

PARTICIPATION AND ROLE IN CONSORTIUMS SINCE 1998



FONTAGRO IN NUMBERS

193 Number of projects approved

141.9 MILLONES Approved total amount US$

9.8 MILLONES Contribution from other agencies

32 Benefited countries

63 Generated technologies

15 New technologies for ALC

8 Technology of global relevance

MEMBER COUNTRIES

- Argentina
- Bolivia
- Chile
- Colombia
- Costa Rica
- Dominican Republic
- Ecuador
- Honduras
- Nicaragua
- Panama
- Paraguay
- Peru
- Spain
- Uruguay
- Venezuela