Early warning system for sustainable preventive management of potato late blight (Phytophthora infestans) in Latin America.

CHILE / ARGENTINA / ECUADOR / PANAMA

















Webstory

The technological solution

Implement an early warning system as decision support system for the integrated management of potato late blight, in order to reduce productive losses caused by this disease, in a sustainable and safe way for the user, in the small family farming of the participating countries.



Description

The alert uses weather data and epidemiological information of the disease to estimate optimal moments of control. Tizon.inia.cl, Phytoalert and DSS-HH systems were used according to the country. This allows to make management decisions, improving the efficiency of agrochemicals, increasing the productivity and profitability of the crop.



Results

Platform of late blight specialists in Latin America

Two technical workshop of the platform carried out in Chiloe, Chile and Cerro Punta, Panama to standardize methodologies, validation of alert systems and analizys of results.

Calibration of the warning system in 29 demonstrative units, showing a reduction of 53%, 56% and 60% in the amount of applications, environmental impact and pesticide cost, respectively.

Monitoring of Phytophthora infestans using FTA cards and collected live samples, with a total of 528 samples for characterization and mapping.

44 workshops for pesticide management, IPM and BPA, 8 field days and seminars, 7 workshop to analize results, 2 international symposia and 2 workshops for co-executors and associates, 4 meeting and workshop with the production chain, 13 publications and videos, 1 web platform and 1 scientific publicaction, reaching more than 2761 people, with 42% women.

63 %

Number of women in the technical team

2761

Trained people

63

Number of and field days 542

Total beneficiaries

42 %

Number of validation











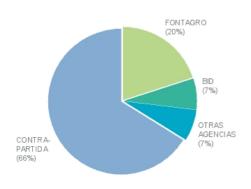


ABOUT FONTAGRO

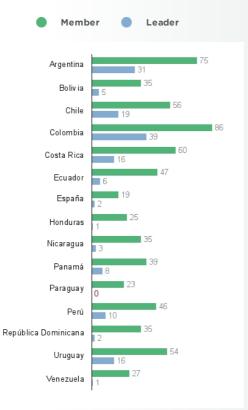
FONTAGRO is a unique cooperation mechanism for agricultural innovation in Latin America and the Caribbean (ALC) and Spain, that works through regional platforms. It is composed of 15 countries that have contributed capital exceeding 100 million dollars and the Inter-American Development Bank (IDB), which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



PARTICIPATION AND ROLE IN CONSORTIUMS SINCE 1998



- Counterpart contribution 93.177.555
- **FONTAGRO** 28.989.468
- IDB 9.922.700
- Other agencies 9.809.078



Number of projects 193 approved

amount US\$

9.8

other agencies

15

New technologies for ALC

8

Technology of global relevance

MEMBER COUNTRIES

