

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

CHILE, ARGENTINA, ECUADOR, PANAMA



Webstory



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.



Technological 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.



Impacts and results

Platform of late blight specialists in Latin America formed.

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 analyze 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 publication, reaching more than 2761 people, with 42% women.



63 %

Number of women in the technical team



542

Total beneficiaries



2761

Trained people



42 %

Women



63

Number of workshops, seminars and field days



29

Number of validation units



528

Monitoring and characterization of the causal agent



2

Organized international symposiums

PARTICIPATING ORGANIZATIONS

MAIN DONORS

