

Protecting the Potato: Innovation and Knowledge Against the Potato Purple Top Complex in the Andean Region

ECUADOR, CHILE, COLOMBIA, PERÚ

Fortaleciendo la Gestión de Complejo de Punta Morada de la Papa en la Región Andina



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Technological solution

The proposal aims to develop molecular detection protocols and train technicians and farmers in integrated management of CPMP, promoting sustainable agricultural practices in potato production.

Technological description

Molecular detection methodologies for pathogens causing the Purple Top Complex of Potato (PTCP) will be developed. Additionally, the aim is to improve integrated pest management, train technicians and farmers, and create educational materials to promote sustainable practices.

Impacts and results

The project intervention is anticipated to reduce yield losses by an average of 25% among producers who adopt the proposed technologies. Additionally, it is expected to decrease pesticide expenditures for PPTC management by 15% to 20%. Furthermore, it is anticipated that 100% of laboratories within the phytosanitary control agencies of the respective countries will implement optimized protocols for detecting this disease. The incorporation of these analyses into the phytosanitary control system will result in a 25% reduction in losses for producers who use certified seed in each of the countries. It is estimated that the project intervention will reduce the use of high-impact insecticides for PPTC control by 50%. Moreover, this reduction in pesticide use will be crucial for mitigating pesticide resistance in pest populations, a critical factor in sustainable pest management.

