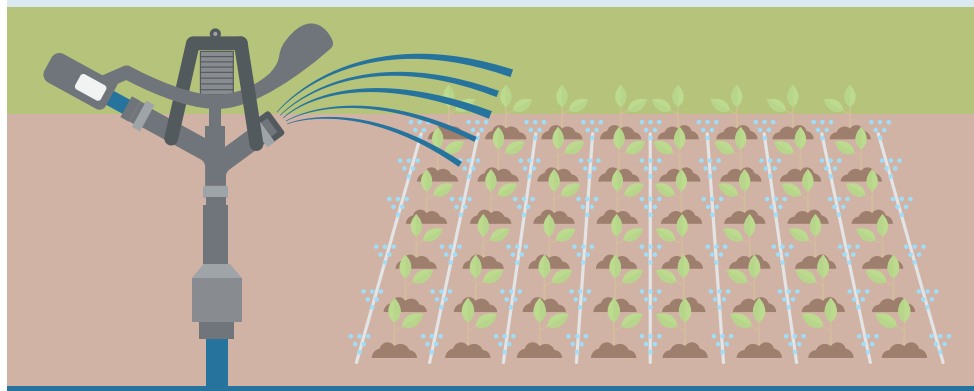


# PRONAREC

Bolivia

National Irrigation Program with a Watershed Approach



## PROGRAM

Promotes an integrated community-level participatory water resource management with watershed approach.



## UNIVERSE

**Type of Evaluation**  
Propensity Score Matching

**Database**  
1,591 farm households =  
543 treated and 1,048 controls



## INTERVENTION

The program finances public infrastructure for the implementation or rehabilitation of irrigation systems. It also offers technical assistance.

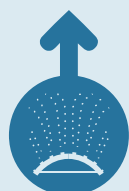
## WHY ARE WE DOING THIS EVALUATION?

To measure and identify short-term impacts of the irrigation adoption process.



Made private investments in on-farm irrigation infrastructure and increased their **land with irrigation**:

0.4-0.5 hectares  
= 35-45%



Increased **spending on irrigation**, especially equipment and maintenance:

US\$30-US\$60  
= 100-160%



Increased **total household income**:

35-45%



Increased the use of complementary technologies, including **certified seeds** (80-90%) and **tractors** (11-20%)

Experienced an improvement in **market access** resulting in higher sales:  
20-30%



Increased the **value of agricultural production**:  
60-70%



Developed **formal water users' associations (WUAs)**  
12-15%



## CONCLUSION

The program generated a process of technological change reflected not only through the incorporation of irrigation technologies but also of complementary agricultural technologies, and improvements in the organization and management of irrigation systems.

Copyright © 2017 Inter-American Development Bank. This work is licensed under a Creative Commons IGO 3.0 Attribution-NonCommercial-NoDerivatives (CC-IGO BY-NC-ND 3.0 IGO) license (<http://creativecommons.org/licenses/by-nc-nd/3.0/igo/legalcode>) and may be reproduced with attribution to the IDB and for any non-commercial purpose. No derivative work is allowed.

Any dispute related to the use of the works of the IDB that cannot be settled amicably shall be submitted to arbitration pursuant to the UNCITRAL rules. The use of the IDB's name for any purpose other than for attribution, and the use of IDB's logo shall be subject to a separate written license agreement between the IDB and the user and is not authorized as part of this CC-IGO license.

Note that link provided above includes additional terms and conditions of the license.

The opinions expressed in this publication are those of the authors and do not necessarily reflect the views of the Inter-American Development Bank, its Board of Directors, or the countries they represent.

