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.

RESULTS
 Compared to the control group, program beneficiaries...

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

- Increased total household income: 35-45%.
- Increased spending on irrigation, especially equipment and maintenance: US$30-US$60 = 100-160%.
- Made private investments in on-farm irrigation infrastructure and increased their land with irrigation: 0.4-0.5 hectares = 35-45%.

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.

Lina Salazar (lsalazar@iadb.org) and Cesar Augusto Lopez (clopezrivas@iadb.org)