Postharvest of the guava

Technological development for postharvest handling of guava (Psidium guajava L)

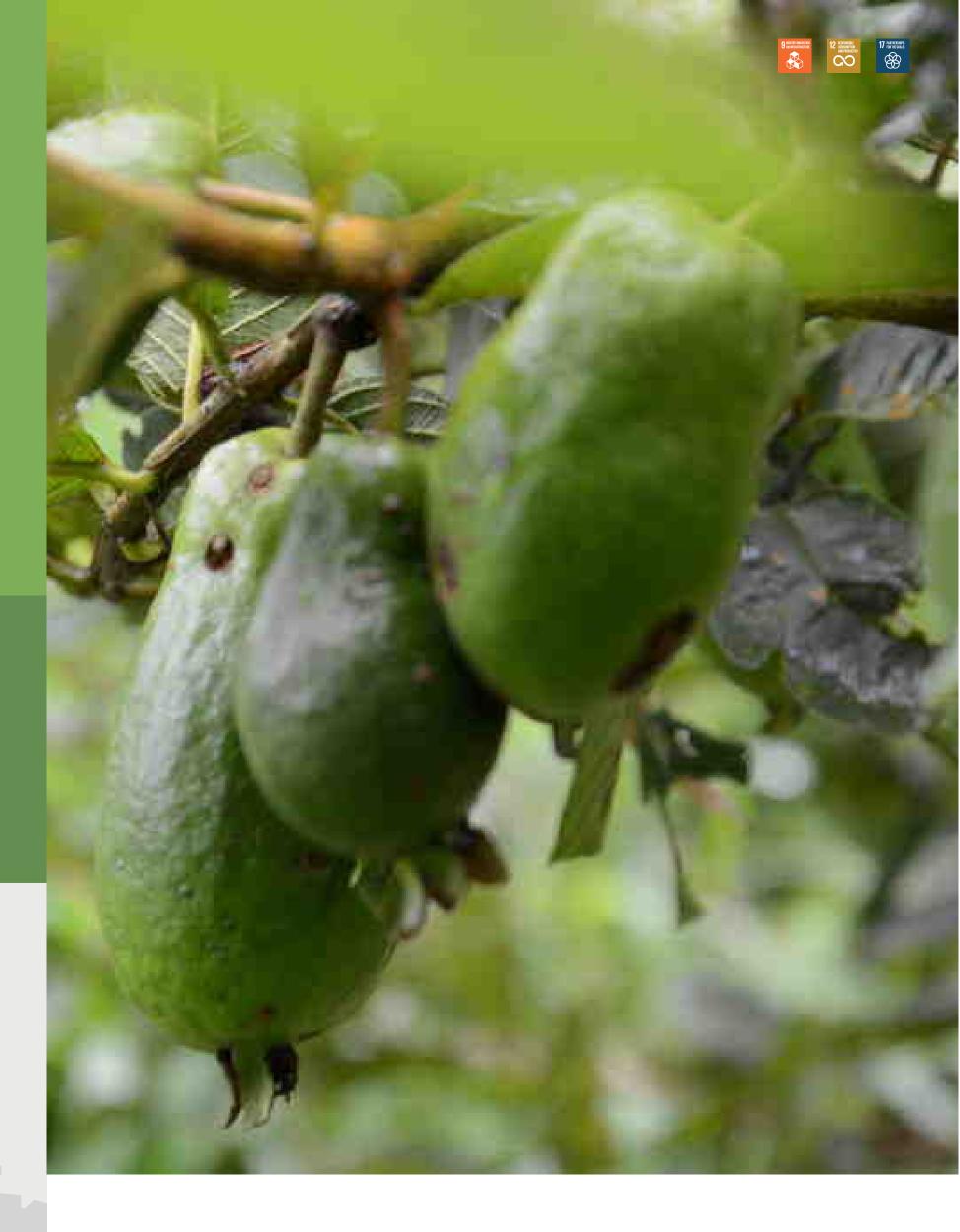


907

104

Trained farmers

Intervened farms



The implemented initiative

The objective of the project was to improve guava production and the agro-industrial processes of the fruit. For this, the damage caused by the guava weevil (Conotrachelus psidii) and the control methods were studied. The incidence and severity of the damage caused by the fungus (Pestalotia sppen), the population dynamics of the white speck of the guava crop (Capulinia sp), the post-harvest behavior of fruits treated with calcium chloride and hot water were also investigated. storage temperatures, optimal harvest status, type of packaging and development of new products.

The technological solution

In the pre-harvest component, 12 research works related to the recognition, behavior, levels of damage and control methods of insects and diseases, such as the fruit weevil, white speck, blossom end rot and pestalia, were carried out. In the post-harvest, 7 research works were carried out regarding the treatment of fruits in post-harvest with applications of calcium, waxes, packaging and storage to prolong the useful life of the

guava, determination of optimal harvest states, physicalchemical characterization of promising materials and determination of industrial use. 4 studies were carried out for the formulation and standardization of guava arequipe, guava sabajon, acidic guava gummies and dehydrated guava pieces. Also, within this objective, a pulp cooler proprototype was designed and built.

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Results

Interdisciplinary research groups were formed among the countries with specialists in Integrated Pest Management, Physiology, Agroindustrial Processes, Chemical and Food Engineering. 15 university students from the schools of Agronomy, Biology, Agroindustrial Engineering and Chemistry, among others, were linked to the process, who carried out their graduate thesis, thus forming an important group of young researchers. It is important to highlight the achievements made with the development of the project, the results of which are reflected in a series of recommendations that help to solve each of the problems raised. These generated technologies are adapted to the socioeconomic conditions of small producers and industrialists, are easy to apply, within the reach of their economy, and do not impact the environment.

Participating Organizations







