Supporting Food System Transformation through Enhanced Production Efficiency and Climate Change Adaptation and Mitigation

LAC Climate Week
October 2023
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Coffee: 5 main hybrids distributed in the region since 2005: Centroamericano, Milenio, Esperanza, Casiopea and Excelencia

- Highly productive
- Tolerant to pests
- Excellent quality

(Coffee and chocolate)

At least 3 times more yields than the traditional varieties

- More than 20 million (5,000 hectares) plants of hybrids and promising varieties already cultivated by producers in LAC

Cacao: 6 clones distributed in the region

- Highly productive
- Tolerant to pests
- Excellent quality

(Coffee and chocolate)

More than 7000 farmers already have the 6 clones in their farms, through CATIE projects, NGO and private companies

Ø More than 20 million (5,000 hectares) plants of hybrids and promising varieties already cultivated by producers in LAC
CATIE is an important partner of NAMA coffee from the beginning of its implementation in Costa Rica.

CATIE is part of the NAMA coffee roundtable [https://www.namacafe.org/es/socios](https://www.namacafe.org/es/socios)

By 2020, NAMA coffee made notable progress.
Sustainable production: Impacts of forest patches on pollinators and production
Impacts of forest patches on bee pollination and coffee production

ANOVA: p < 0.001

Deficit in pollination (open-manually)

20% reduction - more distance from forest patches

Forest patches

- Close
- Medium
- Distant

-0.08
-0.06
-0.04
-0.02
0.00
0.02
0.04
Transforming Livestock Systems: Increasing Productivity and Reducing Carbon Footprint

- Policies for NAMAS livestock in 5 countries
- Silvopastoral systems scaled up
- Metrics for monitoring and evaluation indicators
  - Productivity
  - Methane emissions
  - Carbon sequestration
  - Biodiversity and water
Evolution of Sustainable Low Carbon Livestock Intensification

**PRODUCTION** has increased due to higher milk and meat productivity

**GRAZING AREA** decreased from 2.4-1.3 million ha due to intensification

**FOREST COVER** increased due to Policies of PES and the Private sector engagement

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1Sepsa, MAG, CATIE, CORFORGA; 2CORFORGA, CNP, IICA, 3 CNPL, CNP, 4. FAOSTAT, 5. FONAFIFO- Database
Adaptation of Agriculture to Climate Change Through Water Harvesting and Agroecological Intensification

- Establishing productive systems that are more resilient to climate change and improve food and nutritional security.
- 2,500 families benefited
- Productivity increased by near 20% compared to traditional systems
Tool for water harvesting: Creating a web App

https://cosechah2o.web.app/
Impact of water harvesting on family and rural economies

1,494 Works stored more than 900,000 cubic meters of water per year

110 hectares of crops were irrigated for the first time

3000 Families report production in dry season

> 40% women

• Productivity increased by near 20% compared to traditional systems
GRACIAS