



FEED THE FUTURE
The U.S. Government's Global Hunger & Food Security Initiative

Making Climate-Smart Agriculture Work for Nutrition

BACKGROUND

Over the past three years, the Strengthening Partnerships, Results, and Innovations in Nutrition Globally (SPRING) project has helped USAID and its partners design, implement, and monitor agriculture activities for better nutrition. SPRING documented observations, lessons learned, and recommendations while providing technical assistance to USAID Missions and implementing partners in linking agriculture to nutrition.

OBJECTIVES

- Document achievements and challenges of the U.S. Government's investments in climate-smart agriculture (CSA) and nutrition.
- Make recommendations for future programs, emphasizing effective ways of working across sectors to improve nutrition outcomes.



METHODS

In late 2016, SPRING managed a global review of Feed the Future, the U.S. Government's global hunger and food security initiative, whose activities affect nutrition through three primary impact pathways: production, income, and women's empowerment.¹

The review explored programming from 2010-2015, focusing on—

- global and country-specific strategy
- planning
- reporting documents.

28 interviews conducted with —

- USAID/Washington staff
- USAID Mission staff
- NGO and private sector partners
- technical experts in CSA, gender, and nutrition.

¹ For more details about the agriculture-to-nutrition pathways, see SPRING's *Improving Nutrition through Agriculture Technical Brief Series* (2014), available at <https://www.spring-nutrition.org/publications/series/improving-nutrition-through-agriculture-technical-brief-series>

RESULTS AND PROGRAM IMPLICATIONS

RESULTS: SIGNIFICANT ACHIEVEMENTS OF FEED THE FUTURE'S FIRST ROUND OF CSA INVESTMENTS

- Development of a global research agenda for CSA
- Progress on implementation in priority countries.

EXAMPLES OF COUNTRY ACHIEVEMENTS

Bangladesh

- Bred stress-tolerant rice varieties
- Improved water use efficiency in flooded rice fields
- Reduced the need for fertilizer through promotion of fertilizer deep placement methods.



Benefit: These actions mitigate threats to food security by increasing yields and income, enabling rural farming households to invest in adequate diets and meet health and child care needs.

Nepal

- Farmers learned about conservation tillage and the best crop varieties for changing climates.



Benefit: By growing crops adapted to changing climates, producer households can stabilize their income and improve their access to diverse foods, which supports good nutrition.

PROGRAM IMPLICATIONS

Links between CSA and nutrition are evident, but opportunities exist to strengthen and expand those links. Donor-funded projects can collaborate with other investments in—

- health
- nutrition education
- women's control over resources.

This will help ensure that CSA activities contribute to improved nutrition in addition to reducing risk and vulnerability for smallholders.

Photos courtesy of Feed the Future



CLIMATE CHANGE CONSIDERATIONS FOR NUTRITION-SENSITIVE AGRICULTURE ACTIVITY DESIGN

Producers must adapt their practices to ensure availability of and access to nutritious foods.

If farms fail to adjust to changing climate patterns, the quantity, quality, and diversity of foods will be reduced in both households and markets, particularly for women and children under age five. Farmers, fishers, and pastoralists must adopt practices that reduce risks and promote sustainable production such as planting stress-tolerant crops and improving water management.

CSA activities should facilitate better technologies to help boost agriculture income for nutrition, health, and education.

When adopting new technologies, farmers face real costs related to changing climate patterns, such as crop and food losses that affect nutrition and health. But CSA activities can facilitate investments in better post-harvest processing and storage technologies. These technologies mitigate health risks from spoiled or contaminated food, thereby protecting households from food shortages and minimizing food spending.

CSA activities should help women and families build resilience to climate change shocks.

Women and children in poor households are heavily affected by climate change and environmental shocks. Group saving and lending schemes can reduce negative impacts on nutrition by giving women more control over their earnings and helping them manage their household income. Technologies that reduce time and labor demands support nutrition as well. Carbon-neutral technologies also mitigate negative environmental impacts.

CSA activities should increase demand for and understanding of a nutritious diet.

As the climate changes, nutritious foods typically gathered from forests or grown in communities may no longer be available, forcing rural families to purchase potentially less nutritious foods instead. Marketing, media, and professional and peer counseling can provide households with information about what to consume as part of a nutritious diet.



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www.spring-nutrition.org
USAID's multi-sectoral nutrition project

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