

CGIAR Roundup

Update from the CGIAR Fund Office, May 2014

Research initiatives and discoveries

Five new flagship projects of the CGIAR Research Program (CRP) on [Livestock and Fish](#) aim to enhance the links between discovery and delivery to ensure that [research results are widely used and benefit the poor](#).

As part of [the CRP on Policies, Institutions and Markets](#), survey results from the [Women's Empowerment in Agriculture Index](#) -- developed to track changes resulting from interventions under the US government's Feed the Future initiative -- show links between the WEAI and poverty, health, and nutrition outcomes.

As part of the CGIAR Research Program (CRP) on [Grain Legumes](#), the International Crops Research Institute for the Semi-Arid Tropics ([ICRISAT](#)) launched a [chickpea genome sequencing initiative](#) and participated in the [successful sequencing of the peanut genome](#), a key step in developing improved varieties (e.g., climate resilient and higher yielding) of these nutritious crops—an important source of protein for the poor.

As part of the [CRP on Maize](#), CGIAR's International Institute of Tropical Agriculture ([IITA](#)) is developing high-yielding, stress-tolerant, and adaptable maize varieties for smallholder farmers in the Democratic Republic of the Congo, where there is great potential to [improve productivity, incomes and food security](#).

In response to growing demand from Eastern and Central African countries, the [Africa Rice Center](#), as part of the [CGIAR Research Program on Rice](#), will [expand its research and development capacity in the regions](#).

CGIAR's International Maize and Wheat Improvement Center ([CIMMYT](#)) and the International Winter Wheat Improvement Program released 16 new rust-resistant and high-yielding wheat varieties in Central and West Asia, which will [contribute to food security in this vulnerable region](#).

Tools and technology

As part of the [CGIAR Research Program on Forests, Trees and Agroforestry](#), the World Agroforestry Centre ([ICRAF](#)) developed computer models that show how [agroforestry can repair degraded watersheds](#), which are important as a water supply, habitat for biodiversity, and source of livelihoods in poor areas.

The CGIAR Research Program on Climate Change, Agriculture and Food Security ([CCAFS](#)) and CGIAR's [International Livestock Research Institute](#) helped to develop [G-Range](#), an innovative new tool that simulates how climate change will affect rangelands on which millions of people depend for food and income.

CGIAR's International Rice Research Institute ([IRRI](#)), the University of Hohenheim, and GrainPro, Inc. have designed a new, innovative solar rice dryer that is affordable, easy to use, and ideal for rural areas without a power grid or source of electricity, [providing numerous benefits for smallholder farmers](#).

As part of the CGIAR Research Program Policies, Institutions and Markets ([PIM](#)), the International Food Policy Research Institute ([IFPRI](#)) and [International Center for Agricultural Research in the Dry Areas](#) launched Iraq Spatial, an online, open access tool that uses spatial analysis, including climate change data, to assist in [precisely targeting food security and development interventions](#).

Results and impact

Recent articles in *The Economist* highlight the enormous potential impacts from investments in the [CGIAR Research Program on Rice](#) and CGIAR's International Rice Research Institute ([IRRI](#)), including [reducing malnutrition](#) and greenhouse gas emissions, and [lifting millions of people out of poverty](#).

Through the [CGIAR Research Program on Dryland Systems](#), the Center for Agricultural Research in the Dry Areas ([ICARDA](#)) introduced new dairy production technologies that [reduce processing hours and energy by as much as 75%](#), improve product quality, and increase the incomes of poor dairy producers in Jordan.

A [series of outcome stories](#) highlight work to improve food production through better water management by the former CGIAR Challenge Program on Water & Food. Knowledge and insight from its 12 years of work (2002-2013) have been integrated in the [CGIAR Research Program on Water, Land and Ecosystems](#).

CGIAR's International Crops Research Institute for the Semi-Arid Tropics and Agro-Insight won a [Gold Award for Effective Communications](#) for the potential [impact of their "Fighting Striga" videos in the lives of poor farmers](#), particularly in semi-arid regions where *Striga* weed can cause up to 80% loss in crops yields.

The real-life impacts of CGIAR's work, demonstrated through a collection of photographs and farmer stories from across the world, are featured in [National Geographic's special "Future of Food" series](#).

The [Independent Science and Partnership Council](#)'s new impact assessments website, managed by the Standing Panel on Impact Assessment, features [significant research findings related to CGIAR impacts, and a "Where is the Evidence?" page](#).

Publications, videos and other resources

The first issue of the [newsletter](#) from the [CGIAR Research Program on Integrated Systems for the Humid Tropics](#) highlights emerging results from flagship projects, new publications, and upcoming activities.

A new report by the [CGIAR Research Program on Aquatic Agricultural Systems](#), led by [WorldFish](#), captures the strengths and challenges of agriculture and poverty reduction policies in Cambodia, as well as their [effects on crop production and irrigation management](#).

In its 2013 Annual Report, [CCAFS](#), led by CGIAR's International Center for Tropical Agriculture ([CIAT](#)) highlights its work to advance [climate-smart agriculture](#) across the world through policy engagement, capacity building, innovative partnerships, effective communications, and breakthrough science.

CGIAR's [Bioversity International](#) coordinated a survey of 2,400 smallholder farmers across Bolivia, India, and Nepal, showing that [agricultural biodiversity enhances farmers' capacity to adapt to climate change](#).

The [International Potato Center](#), which leads the [CGIAR Research Program on Roots, Tubers and Bananas](#), partnered with [Shamba Shape Up](#), East Africa's most popular farming TV series, to [promote the health benefits and versatility of the orange sweet potato](#), which is rich in vitamin A. Throughout sub-Saharan Africa, vitamin A deficiency is a leading cause of blindness among young children.

News and events

Following the 2nd Global Conference on Biofortification, organized by [HarvestPlus](#), part of the CGIAR Research Program on Agriculture for Nutrition and Health, [global policymakers joined CGIAR in making a commitment to scale up biofortified crops](#) to reach millions of poor people with more nutritious foods.

[CCAFS](#), the Global Research Alliance on Agricultural Greenhouse Gases, and the World Bank held a meeting of leading scientists, practitioners, and financiers to discuss [opportunities for reducing agricultural GHG emissions while increasing farmers' food security and resilience to climate change](#).

On May 5-6, the Forests Asia Summit, organized by CGIAR's Center for International Forestry Research ([CIFOR](#)), gathered public and private sector leaders to discuss how to [shift to a green economy by better management of forests and landscapes](#).

The "[Building Resilience for Food and Nutrition Security](#)" conference, organized by CGIAR's International Food Policy Research Institute ([IFPRI](#)) and its partners and held in Ethiopia from May 15-17, showcased how hunger can be eliminated by 2025 by strengthening resilience to various environmental, political, and economic shocks that threaten food security and livelihoods.

The [CGIAR Research Program on Water, Land and Ecosystems](#) hosted a month-long blog discussion on resilience, inviting partners and researchers to take a practical look at [how it is evolving from a research concept to a development option and intervention that supports sustainable development](#).