CGIAR
SCIENCE FOR A FOOD-SECURE FUTURE

Update on CGIAR's 2025—30 science and innovation Portfolio: June 2026

24th meeting of the CGIAR System Council
10—11 June 2026


Agroecology farmer, Fatick, Senegal.
Credit R. Belmin CIRAD

What we plan to cover today

1. Recap: **key accomplishments** in 2025

2. **Priorities and progress** in 2026

3. **2026 conflict in the Middle East:** food system impacts and response pathways

Recap: key accomplishments in 2025

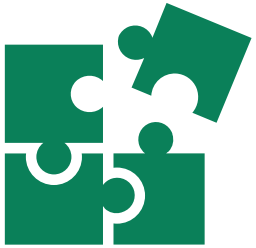
CLOSING THE PAST:
✓ 2022—24 Initiatives & Platforms closed
✓ annual tech. reports, 3-year impact report

DELIVERING THE PRESENT:
✓ Inception reports → ISDC reviews → Action Plan
✓ 11 Prog./ Accel. Director recruitments completed

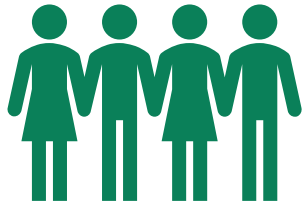
PLANNING FOR THE FUTURE:
✓ prioritization for impact → W1/2 allocation → plans
✓ stronger accountability: KPIs per year/ Center/ W1/2 $

Priorities for 2026

PERFORMANCE against Program/ Accelerator theories of change, KPIs



COHESION across Programs and Accelerators



PEOPLE: Program/ Accelerator leadership, CGIAR Global Science Team (GST)

Progress in 2026: adaptive management

JAN—FEB	FEB—MAR	APR—MAY
REPORT	**REFLECT**	**ADAPT**
• 7,000 results • all Centers • 12 different SDGs • all Impact Areas • more than 2,700 partners • more than 160 countries • 60% of ‘mapped’ W3/ bilateral projects For details, see • CGIAR Results Dashboard: link • 2025 Technical Reports: link	Drawing on 2025 performance & results, lessons, and emerging opportunities – structured ‘Reflect’ processes informing: • 2025 Technical Reports • updated 2026 Plans of Results and Budgets (PORB) • theories of change • risks	Building on the ‘Reflect’ outcomes, updated 2026 W1/2 funding scenarios, and 2025 prioritization against different funding scenarios, Programs and Accelerators update their 2026 PORBs

Progress in 2026: latest W1/2 scenarios

as of 14 April 2026, mUS$, all amounts net of CSP

PROGRAM/ ACCELERATOR	For reference: 2025			For reference: Approved, 2026 W1/2 Baseline			**Updated 2026 Baseline Scenario as of 14 April 2026** ("Apr 2026")						
	W2	W1	W2 + W1	W2	W1	W2 + W1	W2	W1	W2 + W1	Apr 2026 - 2025	Apr 2026 - 2025 (%)	Apr – Jan 2026	Apr – Jan 2026 (%)
Better Diets and Nutrition	15.06	0.03	15.09	9.98	1.36	11.34	15.42	1.44	16.86	1.77	11.7%	5.52	48.6%
Breeding for Tomorrow	20.72	15.23	35.95	13.06	8.51	21.57	26.30	9.00	35.30	-0.65	-1.8%	13.73	63.6%
Capacity Sharing	0.72	1.49	2.22	2.09	0.12	2.22	6.93	0.12	7.05	4.84	218%	4.84	218%
Climate Action	8.58	4.15	12.72	12.19	3.81	15.99	11.39	4.60	15.99	3.27	25.7%	0.00	0.00%
Digital Transformation	3.88	2.76	6.64	0.98	7.87	8.85	2.45	8.54	10.99	4.35	65.6%	2.14	24.2%
Food Frontiers and Security	6.60	2.29	8.89	6.37	0.56	6.93	12.51	0.59	13.10	4.21	47.3%	6.17	88.9%
Gender Equality and Inclusion	3.74	4.77	8.50	2.29	6.56	8.85	4.54	6.56	11.10	2.60	30.6%	2.25	25.5%
Genebanks	8.79	17.68	26.47	6.45	20.02	26.47	4.88	21.59	26.47	0.00	0.00%	0.00	0.00%
Multifunctional Landscapes	18.84	0.00	18.84	8.94	6.85	15.80	15.95	7.25	23.20	4.36	23.2%	7.40	46.8%
Policy Innovations	7.34	6.69	14.03	7.40	4.53	11.93	8.55	4.79	13.34	-0.69	-4.9%	1.41	11.8%
Scaling for Impact	15.76	9.58	25.35	8.79	11.10	19.89	10.24	11.74	21.98	-3.37	-13.3%	2.09	10.5%
Sustainable Animal and Aquatic Foods	3.12	16.69	19.81	1.56	10.33	11.89	4.26	10.93	15.19	-4.62	-23.3%	3.31	27.8%
Sustainable Farming	12.88	12.23	25.11	12.35	2.88	15.23	15.47	3.05	18.52	-6.59	-26.2%	3.29	21.6%
Total	**126.03**	**93.59**	**219.61**	**92.45**	**84.50**	**176.95**	**138.89**	**90.20**	**229.09**	**9.48**	**4.32%**	**52.14**	**29.5%**

Progress in 2026: spotlight on target populations

SC23: Who are the target populations for CGIAR science and innovations?

2025: progressive geographic prioritization towards a smaller number of countries primarily in Sub-Saharan Africa and South Asia. **Within targeted geographies:**

historically, CGIAR science and innovations have reached **diverse beneficiary groups**

See e.g. SPIA-led IA in Bangladesh, Ethiopia, Uganda, and Viet Nam

in 2023—25, **42% of reported innovation users were women**

Innovation use reports

56% of results in 2025 contributed significantly or primarily to the Poverty Reduction, Livelihoods, and Jobs Impact Area

Results Dashboard

LOOKING FORWARD: indicator review → projection of benefits → prioritization, $ allocation

Progress in 2026: spotlight on partnerships

2025 technical reporting and 2026 planning provide an unprecedented view to the non-CGIAR partnerships that underpin the science and innovation Portfolio

2025 RESULTS (LINK)

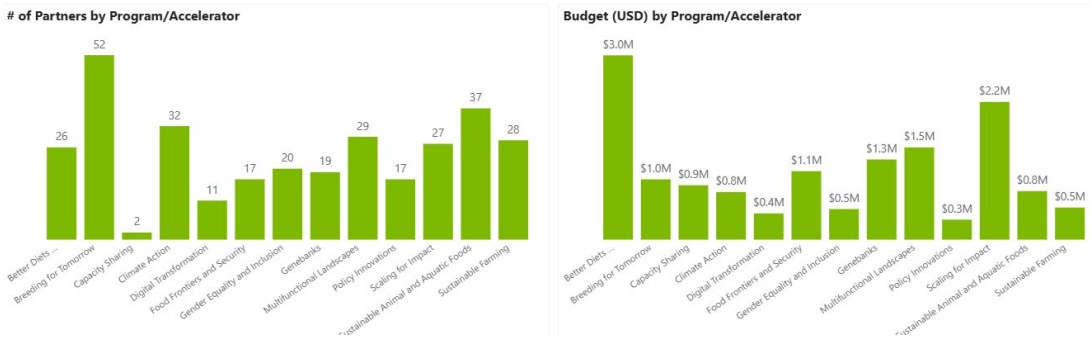
2,792 *partners contributed to 2025 results (W1/2/3, bilateral)*

top contributors: ***KALRO (Kenya), EIARI (Ethiopia)***

2026 PLANS (LINK)

$14.4m *committed partner flow-through of W1/2 $ (May, not final result)*

comprehensive, searchable data on planned 2026 partnerships by Prog./ Accel., Center, country



Progress in 2026: leadership appointments completed

Vania Azevedo, Director, Genebanks Accelerator

Clemens Breisinger, Director, Policy Innovations Science Program

Inge Brouwer, Director, Better Diets and Nutrition Science Program

Nicoline de Haan, Director, CGIAR Gender Equality and Inclusion Accelerator

Lulseged Tamene Desta, Director, Multifunctional Landscapes Science Program

Ram Dhulipala, Director, Digital Transformation Accelerator

Makram Geha, Director, Breeding for Tomorrow Science Program

Charles Kleinermann, Leader, Capacity Sharing Accelerator

Timothy Krupnik, Director, Scaling for Impact Program

Anna Okello, Director, Food Frontiers and Security Science Program

Oscar Ortiz, Director, Sustainable Farming Science Program

Todd Rosenstock, Director, Climate Action Science Program

Rodrigue Yossa, Director, Sustainable Animal and Aquatic Foods Science Program

Progress in 2026: CGIAR Global Science Team (GST)

Progress in 2026: strengthening Portfolio prioritization, resource allocation, and planning for 2027 and beyond

- **more time** for quality inputs and engagement – core processes stabilized by June
- consider **performance** against theories of change, KPIs in resource allocation
- consistent emphasis on **cohesion** across key dimensions: geography, thematic, partnership, funding stream

50 YEARS OF IFPRI
LOOKING TOWARD 2050

CGIAR

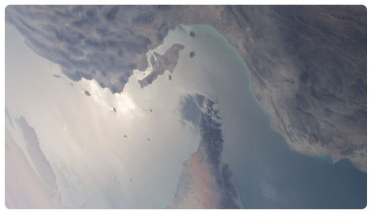
The Iran War and Global Food Security

Johan Swinnen

Drawing on work by
Joe Glauber, Ruth Hill and James Thurlow | IFPRI

CGIAR SC meeting | June 2026

IFPRI blog series



March 6, 2026

The Iran war: Potential food security impacts

By Joseph Glauber

Problems in the Strait of Hormuz reverberate globally.

April 28, 2026

Iran war regional impacts: Growing food security risks in Afghanistan

By Sediqa Zaki

A shock that may trigger humanitarian disaster.

April 1, 2026

The Iran war's impacts on global fertilizer markets and food production

By Charlotte Hebebrand, Joseph Glauber, Rob Vos, and Brendan Rice

Supply chain disruptions reverberate.

May 4, 2026

The Iran war: Farmers in Brazil and Argentina face rising fertilizer and energy prices

By Joseph Glauber, Valeria Piñeiro, and Juan Pablo Gianatiempo

The Strait of Hormuz closure reverberates through the food system.

April 7, 2026

Will the Iran crisis lead to another round of food price spikes?

By Shawn Arita and Joseph Glauber

Key differences from past crises.

May 22, 2026

How fertilizer policies could exacerbate Hormuz price shocks

By Shawn Arita, Ming Wang, and Joseph Glauber

Decisions on quotas and subsidies could have significant market impacts.

April 20, 2026

How the Iran crisis affects fertilizer-dependent countries: The case of Mexico

By Valeria Piñeiro, Juan Pablo Gianatiempo, Jorge Amado Rueda, and Joseph Glauber

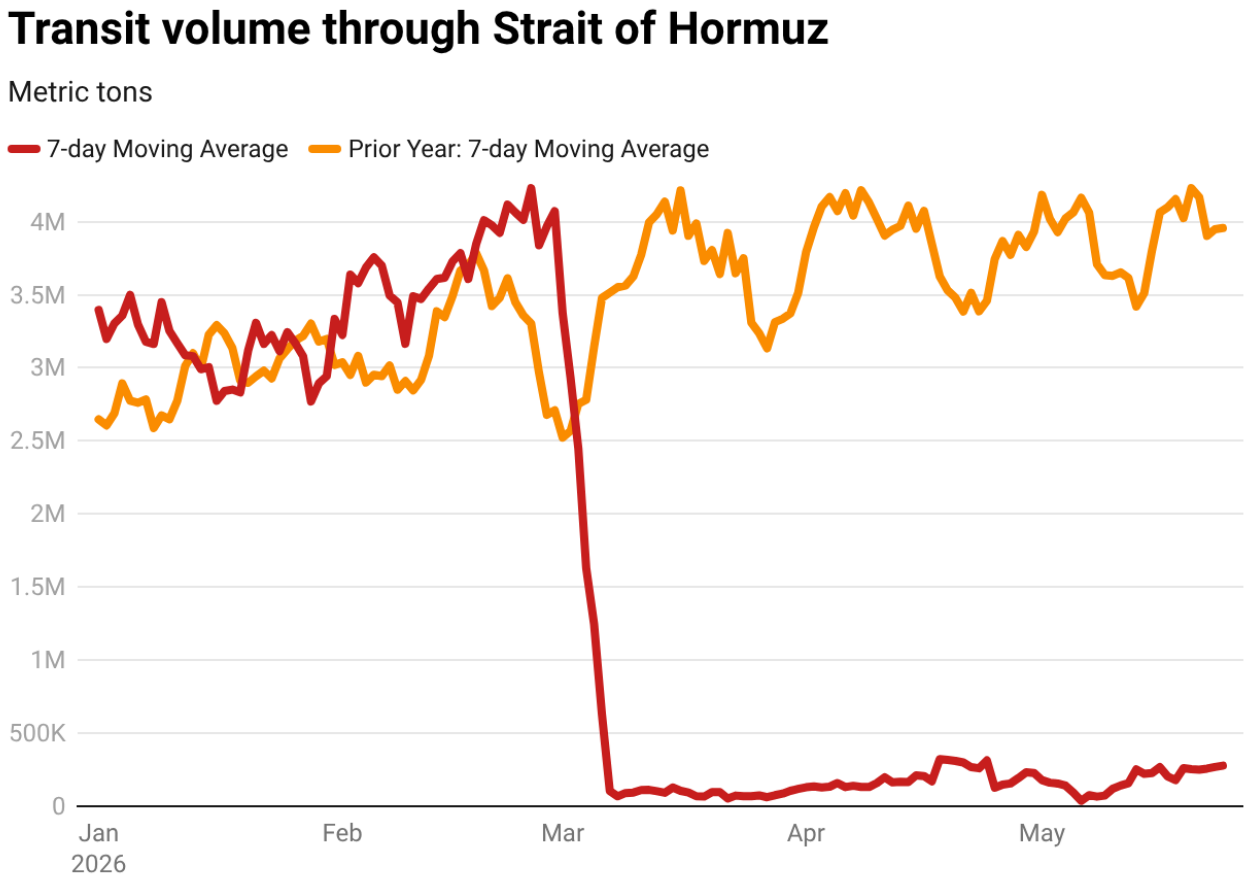
A challenging dynamic for Latin America and the Caribbean.

Forthcoming:

- **Conflict in West-Asia – its implication on Indian economy**
- **Iran War Threatens Global Poverty and Food Security**

Disruption in oil and fertilizer markets

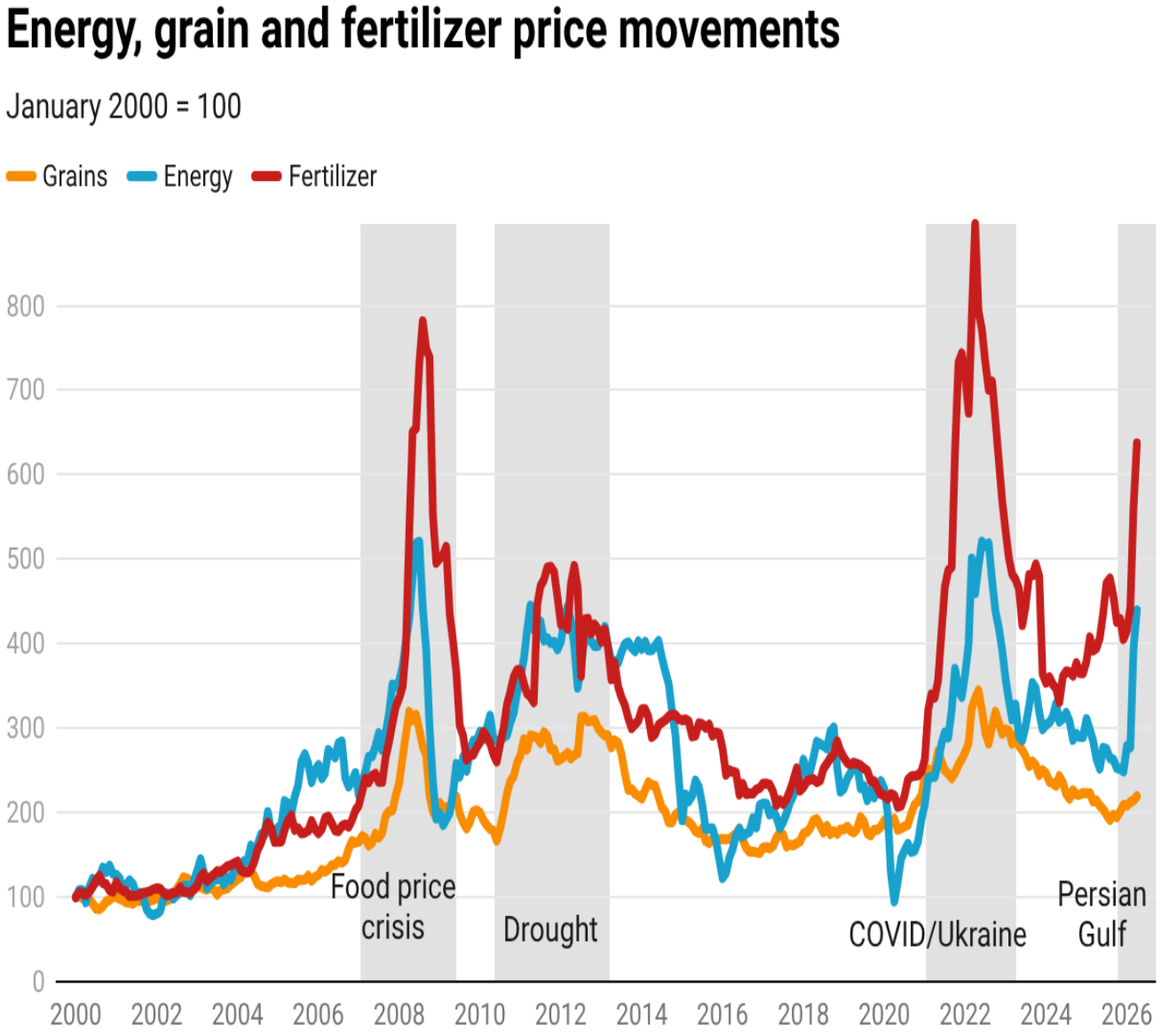
- Strait of Hormuz:
  - 25-30% of world oil exports
  - 20% of liquified natural gas exports
  - Nitrogen, Phosphate, Sulphur
- Almost 90% decline in shipping since the attacks began



Source: IMF Portwatch

Prices

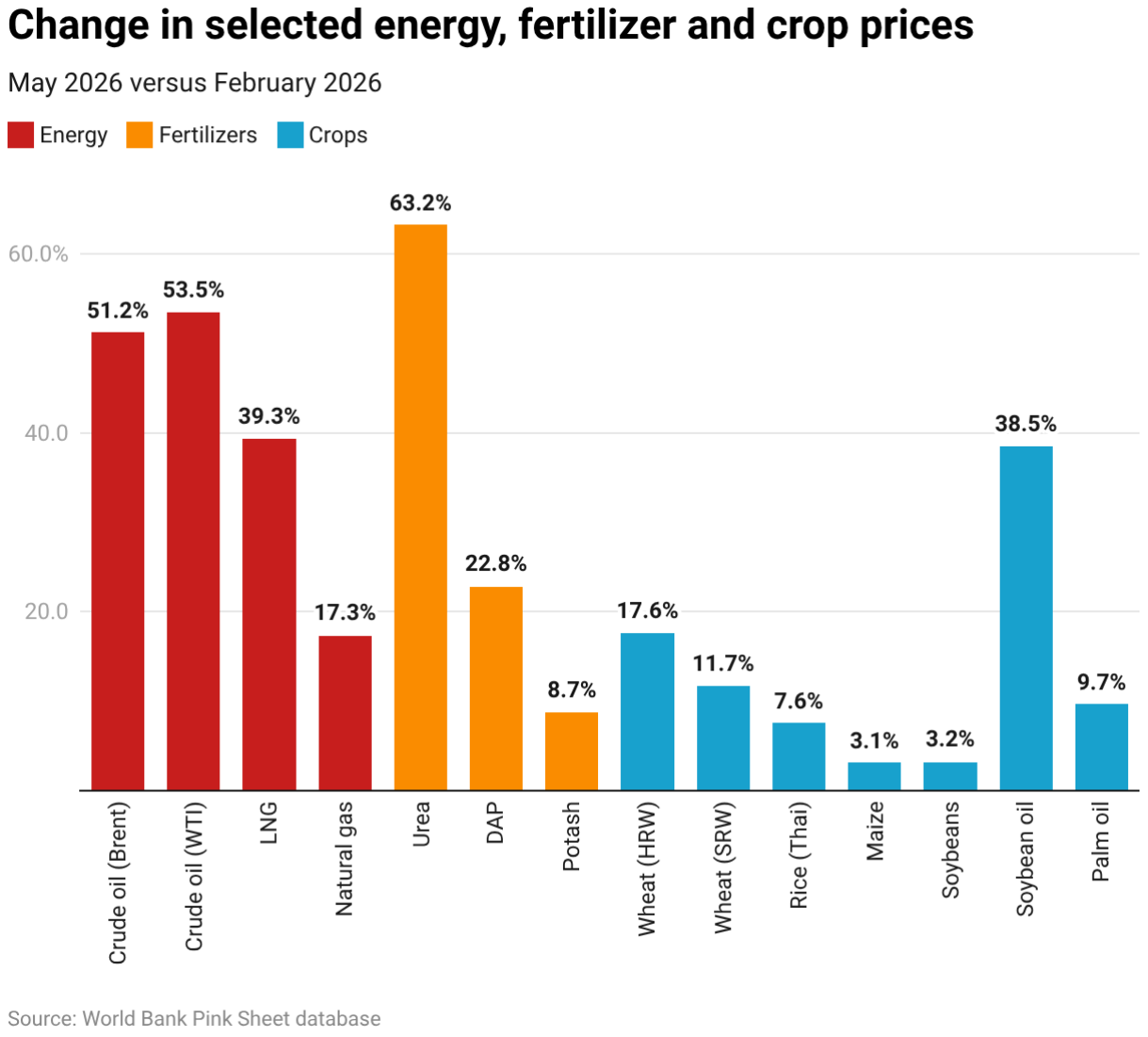
- Energy and fertilizer prices rise following closure of the Strait of Hormuz
- Below 2022 highs (thus far)
- Crop price movements remain constrained (at least for now)



Source: World Bank Group Pink Sheet

Crop prices diverge from energy and fertilizer movements

- Agricultural prices largely constrained except soybean oil which have been boosted by link to biodiesel production.
- Wheat prices largely reflecting poor crop conditions in US.

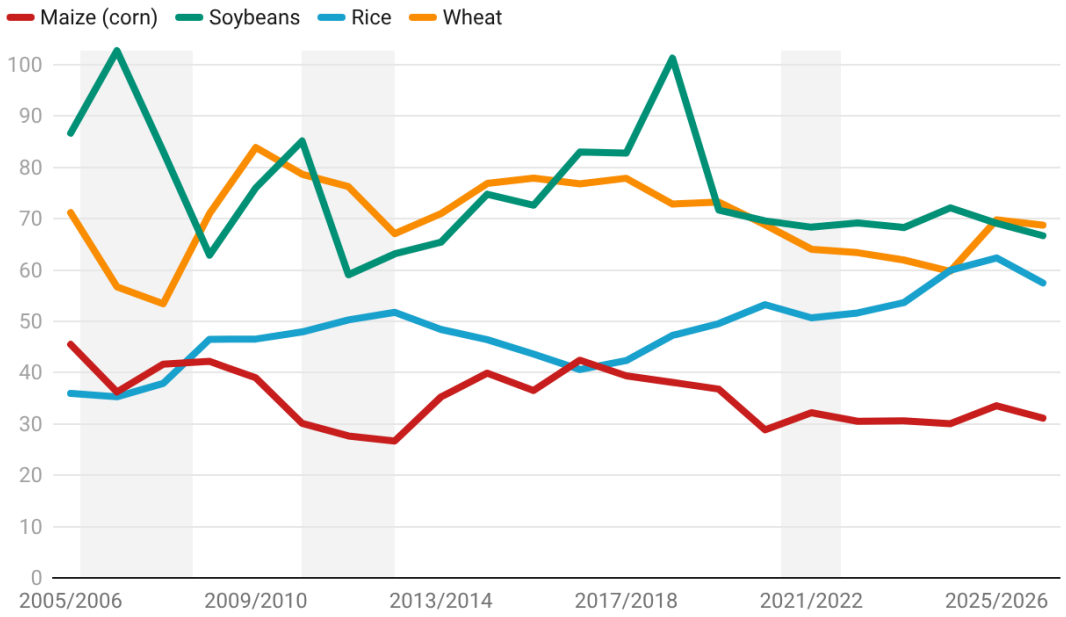


Source: World Bank Pink Sheet database

Grain and oilseed supply outlook

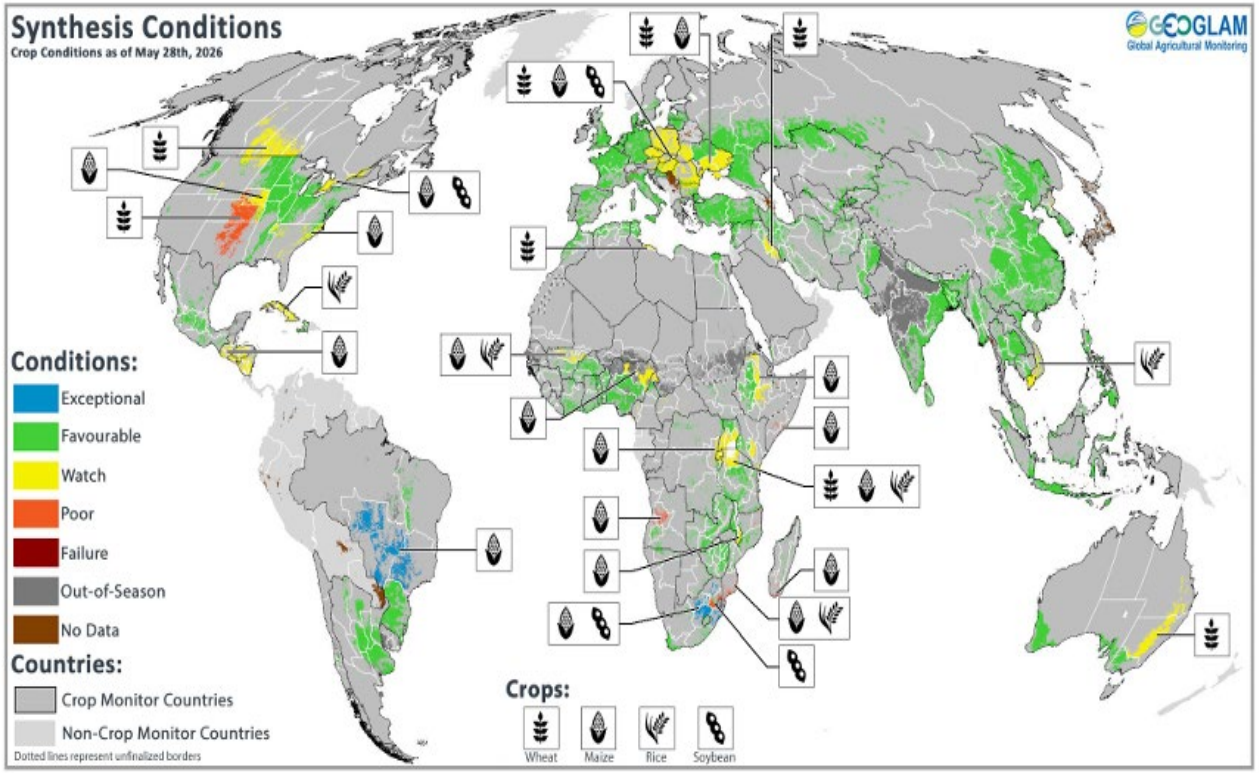
Global grain stocks

Days of use



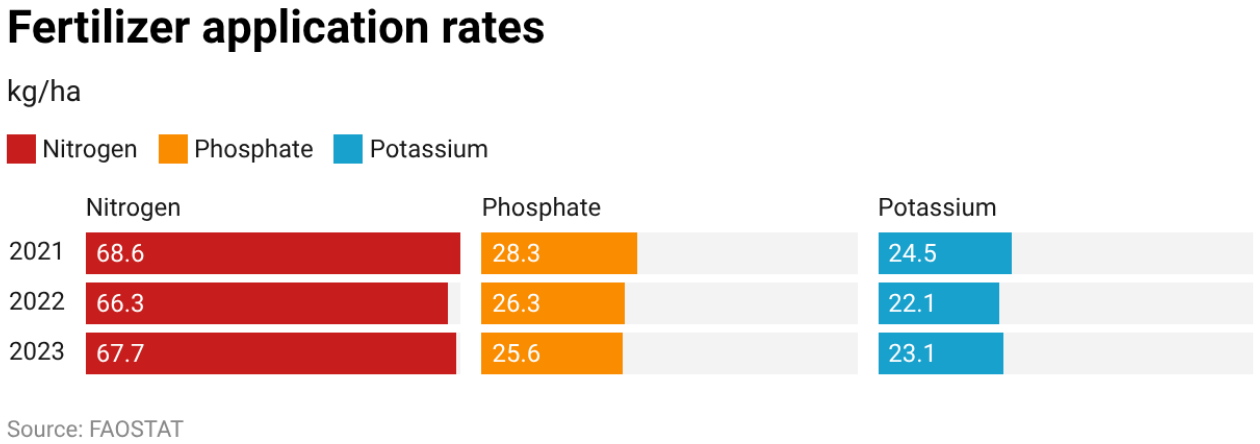
Days of use = Stocks-to-use ratio X 365 days. Stocks exclude China.

Source: US Department of Agriculture, Foreign Agricultural Service PSD database

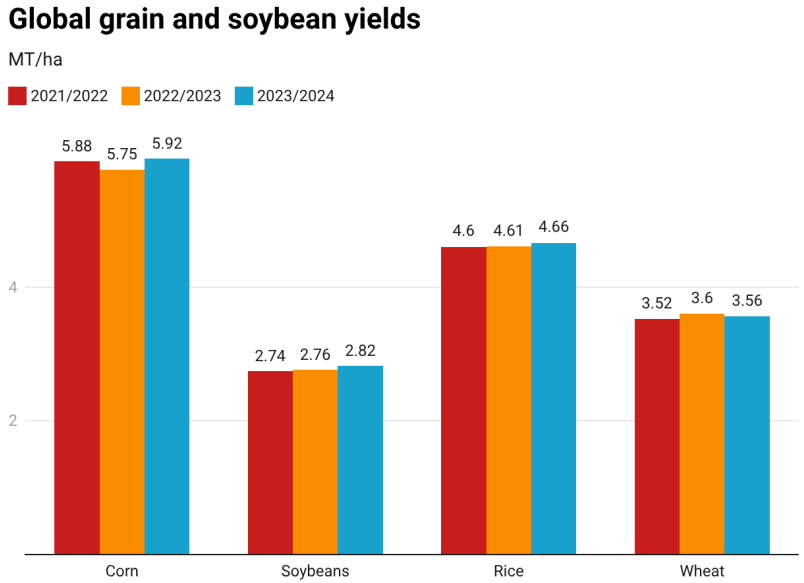


Impacts of high fertilizer prices on application rates: 2022

- **Record high fertilizer prices saw decline in application rates in 2022**
  - ✓Nitrogen down 3.3%
  - ✓Phosphate down 7.0%
  - ✓Potassium down 9.6%
- **But yields largely unaffected:**
  - ✓Corn down 2.22%
  - ✓Soybeans up 0.7%
  - ✓Rice unchanged
  - ✓Wheat up 2.3%
- **2026: will low commodity prices lead to larger drop in application rates (N)?**



Source: FAOSTAT

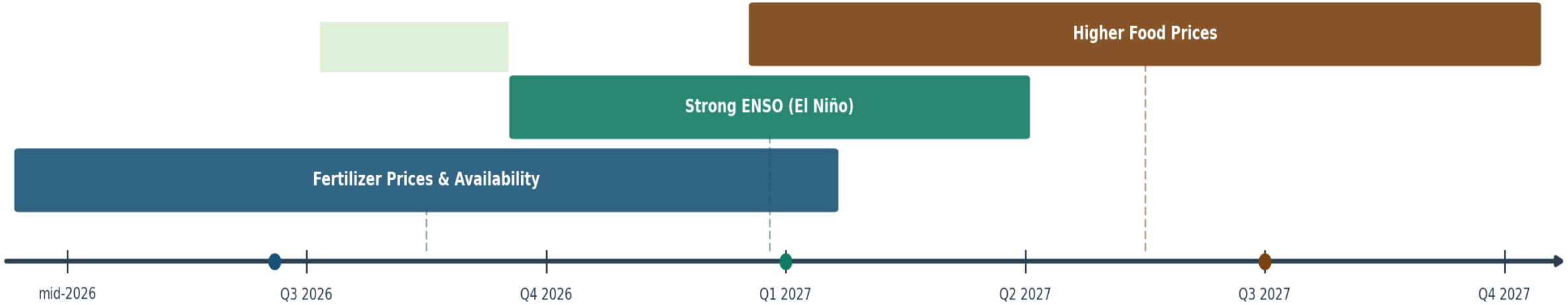


Source: USDA/PSD view

Timeline

Assessing overlapping risks

Three distinct but linked risks affecting food security



Timing: Varies by country (depends on fertilizer purchase cycle)

Key risk: Higher fertilizer costs reduce application rates → lower crop yields in next season

Exposed: High users of imported fertilizer

Timing: Q4 2026 – Q2 2027

Key risk: El Niño drought or floods damage crops during growing season

Exposed: Countries with historically high El Niño impact

Timing: 2027

Key risk: Higher fertilizer prices and poor weather lower global food availability, pushing up prices

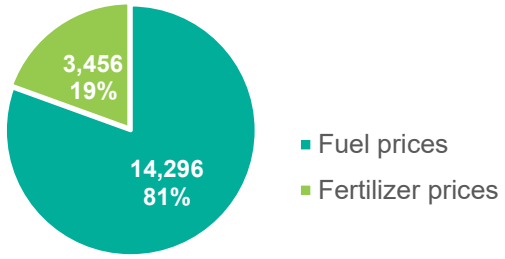
Exposed: Countries with high share of calories from imported food

Risk Impact | Iran War Impacts Only – FARRMS Country Simulations

Higher global fuel and fertilizer prices increases poverty

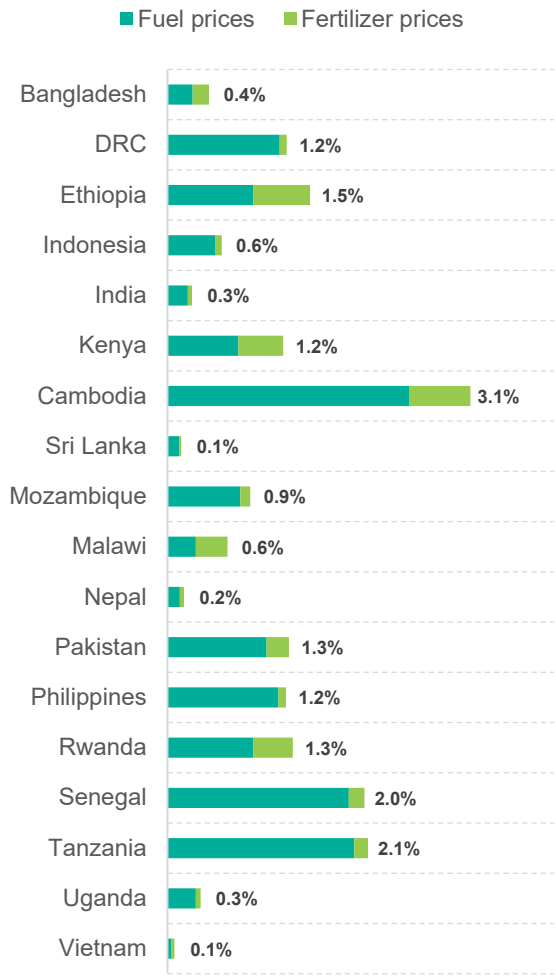
- Fuel prices dominate (most LMICs rely on fuel imports and transport costs drive consumer prices for most products)
- Fertilizer is a more important driver of undernourishment

17.8 million increase in poor population (across these 18 countries)



Change in share of the population living in poverty (%-point)

(model results | $3.00 per day poverty line)



Change in poor population

(1000s)

Bangladesh	+727
DRC	+1,225
Ethiopia	+1,850
Indonesia	+1,504
India	+3,520
Kenya	+650
Cambodia	+540
Sri Lanka	+32
Mozambique	+288
Malawi	+128
Nepal	+49
Pakistan	+3,112
Philippines	+1,409
Rwanda	+177
Senegal	+351
Tanzania	+1,344
Uganda	+163
Vietnam	+72

Risk Impact | Food Crisis Projections (& AI extensions)

Model

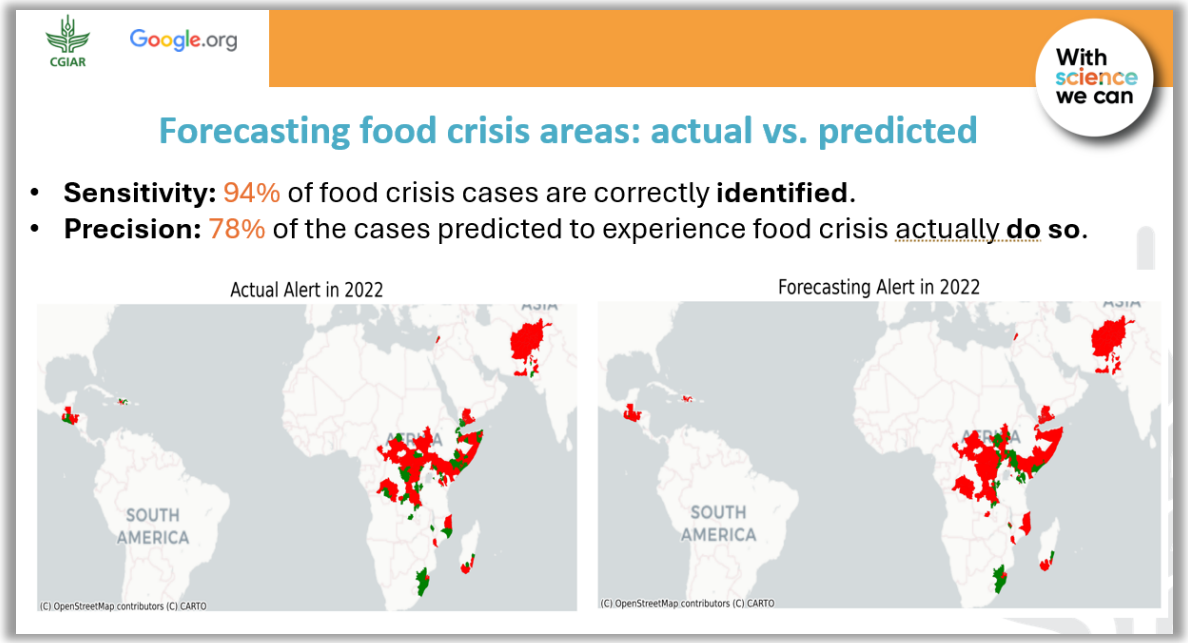
- Uses free, publicly available data
- Fully replicable and computationally manageable
- Very accurate for basic outcomes
- Focus on 54 highly food insecure countries

Purpose

- Forecasting in fragile/conflict-affected settings where data and modelling is weakest
- Highlight where anticipatory actions should be explored
- Identify where future assessments are needed

Current use:

- Strong predictor of baseline food insecurity going into the next 12 months.
- Projections of future food insecurity also include drivers of future stresses: current fertilizer prices, oil futures, weather forecasts



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CGIAR SUSTAINABLE FARMING

Sustainable Farming Program (SFP)

Progress on optimizing fertilizer use and soil fertility management

Oscar Ortiz, 10 June 2026

SFP- Progress on fertilizer optimization and soil management

Site-specific nutrient management and digital advisory services. Next-generation (AI-enabled) site-specific nutrient recommendations to increase productivity, reduce fertilizer costs and enhance profitability. Tested through AgWise in Ethiopia, Kenya, Nigeria, Ghana, and Rwanda. I.e.16% - 25% yield and additional profit of USD 412–580/ha can be achieved in Ethiopia

Integrated soil fertility solutions. Optimizing integrated soil fertility management options, including compost, vermicompost, farmyard manure, diversification including integration of legumes, and other locally available organic amendments to complement fertilizers during periods of input shortages, and integrate into advisories. Integrated soil management can increase 30% productivity. Challenges are on scaling

Addressing underlying soil constraints. Management of key soil constraints that limit fertilizer effectiveness. Case of soil acidity through locally sourced liming materials and complementary strategies. I.e. correcting soil acidity results in 18% - 22% yield gain at national scale in Ethiopia

Exploring green ammonia. Future option to compensate the fertilizer crisis in the long term when technologies and decentralized production plants are in place

CGIAR SUSTAINABLE FARMING

Details in the 2025 report

Ethiopia Advances Harmonized Fertilizer & Agronomy Solutions (HaFAS)

A single digital decision-support system that takes the guesswork out of farming

"Before, farmers received different fertilizer messages from different projects. Now HaFaS gives one nationally validated recommendation we can stand behind and improve each season."

— Dr. Birru Yiteferu, EIAR

Key result story

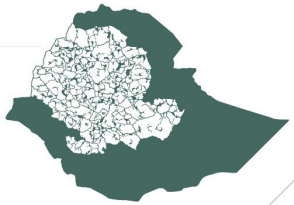
Piloted on **9,500+** sites, reaching **49,000+** farmers in 2025 and scaling through Ethiopia's national extension system.

WHAT WAS ACHIEVED

- Unified HaFaS System
- **2,700+** Trials & **9,500+** Pilot Sites
- Wheat: **+16–25%** | Maize: **+10.5–17.6%**
- **20%** reduction in fertilizer cost

WHERE

- **100+** Districts
- **7** Regions



BY WHOM

Alliance Bioversity & CIAT

ICRISAT

WITH WHOM (PARTNERS)

Ministry of Agriculture

Digital Green

LERSHA

giz Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

EIAR

Self Help AFRICA

REACH & SCALE

- **49,000+** farmers reached of whom **21%** were women
- **15,000+** Digital Green's AI-enabled Farmer Chats
- **8,000+** farmers access finance through LERSHA, a bundled digital service
- Scaling to **6.85M** farmers

WHY IT MATTERS

- Higher incomes
- Climate adaptation
- Environmental health
- Gender inclusion

Field Trials in East Gurage Zone

Farmers Evaluating Test Plots in Halaba

NARS Training Workshop

Ethiopian Farmers

IMPACT AREAS

Climate & Environment

Livelihoods

Gender Inclusion

National Systems

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Thank you