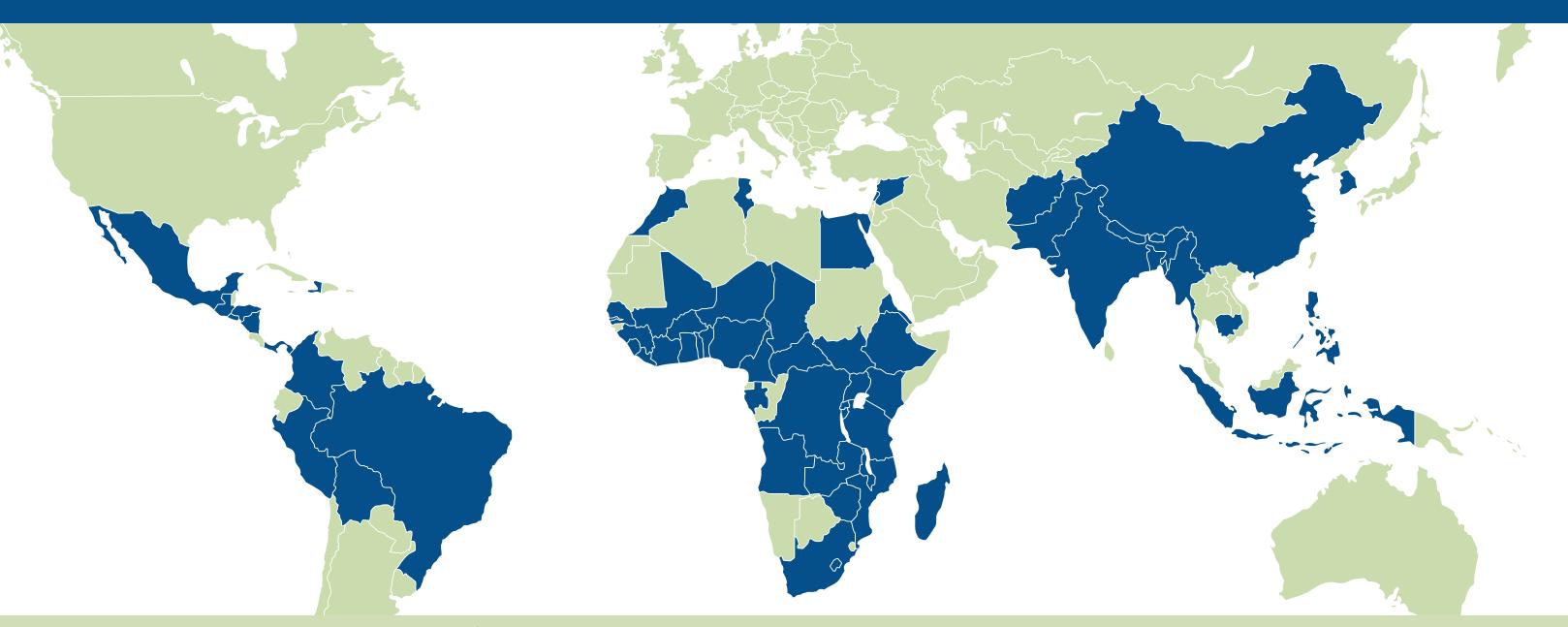


# HarvestPlus Biofortified Crops Around the World Better Crops · Better Nutrition

Biofortified crop varieties have been released and/or are in testing in the countries shaded dark blue on the map. See the table on the reverse for crop details by country.



These biofortified crops are conventionally bred to contain higher levels of essential vitamins and minerals needed for good health.

This map and the crop table on the reverse are based on data from HarvestPlus, as well as data from the International Potato Center for varieties of vitamin A orange sweet potato and iron/ zinc Irish potato.

HarvestPlus improves nutrition and public health by developing and promoting biofortified food crops that are rich in vitamins and minerals, and providing global leadership on biofortification evidence and technology. HarvestPlus is part of the CGIAR Research Program on Agriculture for Nutrition and Health (A4NH) and based at the International Food Policy Research Institute (IFPRI).

Principle donors of HarvestPlus are: the UK Government, the Bill & Melinda Gates Foundation, The United States Agency for International Development, the Government of Canada, the John D. and Catherine T. MacArthur Foundation, the Children's Investment Fund Foundation, and donors to the A4NH program.





More than **48 million people** in smallholder farming households are benefiting from conventionally bred biofortified crops facilitated by HarvestPlus. These crops improve nutrition and health status when eaten regularly.

# **HarvestPlus Focus Crops**

#### Iron Bean

For Nutrition: Provides up to 80% of daily iron needs For Farmers: High yielding, virus resistant, heat and drought tolerant CGIAR Partner: Bioversity/CIAT

### Iron Pearl Millet

For Nutrition: Provides up to 80% of daily iron needs For Farmers: High yielding, mildew resistant, drought tolerant CGIAR Partner: ICRISAT

#### Zinc Maize

For Nutrition: Provides up to 70% of daily zinc needs For Farmers: High yielding, virus resistant CGIAR Partner: CIMMYT and IITA

#### Zinc Rice

For Nutrition: Provides up to 40% of daily zinc needs For Farmers: High yielding, disease and pest resistant CGIAR Partner: IRRI and Bioversity/CIAT

#### Zinc Wheat

For Nutrition: Provides up to 50% of daily zinc needs For Farmers: High yielding, disease resistant CGIAR Partner: CIMMYT

#### Vitamin A Cassava

For Nutrition: Provides up to 100% of daily vitamin A needs For Farmers: High yielding, virus resistant CGIAR Partner: IITA and Bioversity/CIAT

#### Vitamin A Maize

For Nutrition: Provides up to 50% of daily vitamin A needs For Farmers: High yielding, disease and virus resistant, drought tolerant

CGIAR Partner: CIMMYT and IITA

## Vitamin A Orange Sweet Potato

For Nutrition: Provides up to 100% of daily vitamin A needs For Farmers: High yielding, virus resistant, drought tolerant CGIAR Partner: CIP

# Biofortified Crop Varieties Released (R) or in Testing (T) by Country

Africa	HIB	IPM	ZIM	ZIR	ZIW	ABP	VAC	VAM	OSP	IZC	IZP	IZL	ZIS
Angola								Т	R				
Benin Rep		Т					Т	Т					
Burkina Faso		Т						Т	R				
Burundi	R					R			R				
Cameroon						Т	R	R					
Central African Rep							Т						
Chad							Т						
Côte d'Ivoire						Т	Т		R				
DR Congo	R					R	R	R					
Egypt					Т			Т					
Eritrea		Т							Т				
Ethiopia	Т				Т		Т	Т	R		Т	Т	
Gabon							Т						
Gambia		Т					Т						
Ghana		Т					R	R	R				
Guinea						Т	Т						
Kenya	Т	Т					т	т	R		т		
Liberia							т	т					
Madagascar		Т		т					R				
Malawi	Т	Т					т	R	R		т		
Mali		Т						R	Т				Т
Morocco									Т			Т	
Mozambique							Т	Т	R				
Niger		R					Т	Т	Т				
Nigeria		Т	Т			Т	R	R	R	Т			Т
Rwanda	R					Т		R	R		т		
Senegal		т					Т	т	Т				
Sierra Leone							R	Т					
South Africa					Т			Т	R				
South Sudan	Т	Т						Т	Т				Т
Swaziland							Т						
Tanzania	R	Т				Т	Т	R	R				
Togo		т						т					
Tunisia		Т											
Uganda	R	т				Т	Т	Т	R		Т		Т
Zambia		Т			Т		Т	R	R				
Zimbabwe	R	Т			Т			R	Т				

HIB = Iron Bean
IPM = Iron Pearl Millet
VAC = Vit. A Banana/Plantain
VAC = Vit. A Cassava
VAM = Vit. A Maize

ZIM = Zinc Maize

ABP = Vit. A Banana/Plantain
VAC = Iron/Zinc Cowpea
IZP = Iron/Zinc Irish Potato
VAM = Vit. A Maize
IZL = Iron/Zinc Lentil
ZIS = Zinc/Iron Sorghum

ZIR = Zinc Rice

**ZIW** = **Zinc Wheat** Source: HarvestPlus, International Potato Center (2020)

Asia	HIB	IPM	ZIM	ZIR	ZIW	ABP	VAC	VAM	OSP	IZC	IZP	IZL	ZIS
Afghanistan					Т								
Bangladesh				R	R				R			R	
Bhutan					Т						Т		
Cambodia				Т									
China				Т	Т			Т	R		Т		
<b>East Timor</b>									R				
India		R		R	R			Т	R	R	Т	R	R
Indonesia				R					R				
Lebanon												Т	
Myanmar				Т									
Nepal					R			Т			Т	R	
Pakistan					R			Т				Т	
Philippines					Т								
South Korea									R				
Syria												R	

LatAm/Caribbean	HIB	IPM	ZIM	ZIR	ZIW	ABP	VAC	VAM	OSP	IZC	IZP	IZL	ZIS
Bolivia	R		R		R						Т		
Brazil	R			Т	R		R	R	R	R			
Colombia	R		R	R			Т	Т	R				
El Salvador	R		R	R									
Guatemala	R		R	Т			Т		R				
Haiti	Т		Т	Т			Т	Т	Т				
Honduras	R		R						Т				
Mexico			Т		R		Т	Т					
Nicaragua	R		R	R					R				
Panama	R		Т				Т	Т	R				
Peru									R		Т		

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